Academic Program Description

University Name: Anbar

Faculty/Institute: College of Dentistry

Scientific Department: Dentistry

Academic or Professional Program Name: Bachelor's Degree in Oral and Dental Surgery

Final Certificate Name: BDS (Bachelor of Dental Surgery)

Academic System: Annually

Description Preparation Date: 06/06/2025

File Completion Date: 06/06/2025

Signature:

Head of Department Name:

Assist. Prof. Dr. Mohammad Khidher Abdjalel

Date: 16 /06/2025

Signature:

Scientific Associate Name:

Assist. Prof. Karama Tahrir Ahmed

Date: 16/06/2025

The file is checked by: Assist. Prof. karam Tahrir Ahmed

Department of Quality Assurance and Academic Performance

Director of the Quality Assurance and Academic Performance Division

Name: Assist. Prof. Dr. Elham Hazeim Abdulkareem

Date: 16/06/2025

Signature:

16/6/25

Approval of the Dean

1. Program Vision

The program vision is written here as stated in the university's catalogue and website

2. Program Mission

The distinction and the lead in achieving the first degree of science between local and Arab dentistry colleges around the globe.

3. Program Objectives

- To develop, improve and constantly review the undergraduate dental curricula in the various fields of Conservative, Prosthodontic, Oral Medicine, Oral Surgery, Orthodontics and Pediatric Dentistry, to enrich the learning experience of students; to enhance the quality of clinical training available in the various dental specialties for clinical interns.
- To offer a broad spectrum of continuing education options that are accessible to all dental professionals to keep them updated on new trends and practices.
- To provide patient-centred, comprehensive and quality care in an environment that is sensitive to the needs of every patient.
- To optimize clinical efficiency and effectiveness for patients, students, staff, and faculty.
- To increase opportunities for students' participation in community-based training programs for clinical care and health education, promotion and disease prevention to instill in students a sense of belonging to their community by involving them in voluntary dental care activities in remote and underprivileged areas.
- The College will provide an information technology environment that promotes the development and use of online educational and research tools and services.

4. Program Accreditation

Does the program have program Accreditation? And from which agency? In progress.

5. Other external influences

Is there a sponsor for the program? Iraqi Ministry of Higher Education and Scientific Research National Programme Accreditation

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	4	7	–	–
College Requirements	40	208	–	–
Department Requirements	–	–	–	–
Summer Training	1	–	–	–
Other	–	–	–	–

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

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			Theoretical	Practical
First	DNT101	General Anatomy	2	2
	DNT102	Biology	4	2
	DNT103	Medical physics	4	2
	DNT104	Medical Chemistry	4	2
	DNT105	Dental Anatomy	4	2
	UOA141	Computer	1	1
	UOA135	Democratic and Human Rights	2	0
	UOA140	Medical Terminology	2	0
Second	DNT201	General Anatomy	2	2
	DNT204	Biochemistry	4	2
	DNT202	Oral Histology and Embryology	4	2
	DNT205	Dental Material	2	2
	DNT203	General Histology	4	2
	DNT206	Prosthodontics	2	4
	DNT207	General physiology	4	2
	UOA201	Crimes of the defunct Ba'ath Party	2	0
Third	DNT308	Community Dentistry	2	**2**
	DNT307	Dental Radiology	2	**2**
	DNT303	General Pathology	4	**2**
	DNT306	Prosthodontic	2	**2**
	DNT301	Oral surgery	2	**2**
	DNT304	Pharmacology	4	**2**
	DNT302	Microbiology	4	**2**
	DNT305	Conservative dentistry	4	**4**
	DNT309	Dental Ethics	2	**0**
Fourth	DNT409	General Medicine	**2**	**0**
	DNT408	General Surgery	**2**	**0**
	DNT402	Oral Pathology	**4**	**2**
	DNT401	Oral Surgery	**2**	**4**
	DNT403	Orthodontics	**2**	**4**
	DNT404	Pediatric Dentistry	**2**	**2**
	DNT407	Periodontic	**2**	**3**

	DNT406	Prosthodontic	**2**	**3**
	DNT405	Conservative Dentistry	**2**	**6**
Fifth	DNT506	Prosthodontic	**2**	**6**
	DNT502	Oral Medicine	**2**	**4**
	DNT501	Oral Surgery	**2**	**6**
	DNT503	Orthodontics	**2**	**4**
	DNT504	Pediatric Dentistry	**2**	**3**
	DNT508	Preventive Dentistry	**2**	**3**
	DNT507	Periodontic	**2**	**3**
	DNT505	Conservative Dentistry	**2**	**6**
	DNT509	Research project	**0**	**0**

8. Expected learning outcomes of the program

Knowledge	
Knowledge Objectives	1. The student acquires adequate knowledge of the scientific terms used in dental medicine and theoretical material. 2. The student should identify the various types of materials and devices used in dental medicine. 3. Promote student confidence in dealing with all kinds of patients. 4. Develop the capacity of students to deal with various treatment cases. 5. Strengthen the principle of participation of a group of students to discuss a medical condition and how it is treated. 6. Provide the student with full knowledge to enable him/her to prepare an integrated treatment plan for the patient.
Skills	
Skills Objectives	1. Promotion of professional ethics and treatment of patients among graduates. 2. Students acquire different therapeutic skills. 3. Promote the principle of lifelong learning to further develop the profession.
Consensual and valuable objectives	1. The student's ability (let's think about thinking ability) is meant to believe what is tangible (the student ' s ability) and to understand when, what and how he should think and improve the ability to think reasonably.

	2. Critic thinking skill (critical thinking) aimed at presenting a problem analysing it logically and reaching the desired solution. 3. The student's awareness of the need to balance freedom and responsibility. 4. The right decision-making skill for the patient is based on rational thinking.
Ethics	
General and rehabilitation skills	1. Thinking skill. 2. The student ' s awareness of the need to balance freedom and responsibility. 3. The right decision-making skill for the patient is based on rational thinking.
Planning for personal development	1. Negotiation and persuasion: the student must be able to influence, convince, discuss and reach agreement. 2. Leadership: The student has to lead, motivate and guide others. 3. Work autonomy: the student can assume responsibility and independence by working under different circumstances.

9. Teaching and Learning Strategies

1. Electronic lectures.
2. Providing students with lectures on the College website.
3. Educational films.
4. Powerpoints
5. Use of educational models.
6. Applied clinical education.

10. Evaluation methods

1. Theoretical tests
2. Practical tests
3. Daily exams
4. Clinical exam

5. Seminars

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of teaching staff	
	General	Special			Staff	Lecturer
Professor	1	4	-	-	5	-
Assistant Professor	7	15	-	-	22	-
Lecturer	9	21	-	-	30	-
Assistant Lecturer	10	9	-	-	19	-
Total	27	49	-	-	76	-

Professional Development

Mentoring new faculty members

1. Instruct, introduce and give general background to new faculty members on the College and major departments.
2. In-depth workshops to support knowledge and skills in teaching, scientific research and quality assurance.

Professional development of faculty members

3. Self-development based on the personal efforts of a teaching staff member through access, listening to seminars and lectures, attending conferences and panel discussions, and conducting studies and research.
4. Development planned and overseen by the Continuing Education Unit, which can employ continuing training courses, workshops, panel discussions, hosting of visiting professors, exchange visits and research participation.

12. Acceptance Criterion

The admission criteria include those students with a certain cumulative rate according to the central admission system, as well as students with physical, mental and social capacity to manage any medical condition or practice required by study. Dental College requires interviews with candidates to assess qualities such as willingness to help people, self-confidence, ability to face challenges, ability to work with people and ability to work independently.

13. The most important sources of information about the program

1. College and university website.
2. University manual.
3. Textbooks and scientific sources for the College.

14. Program Development Plan

The programme should focus on directing education and research towards human development and community progress. High-quality education is provided at university and postgraduate levels, and graduates are prepared for success in various professional fields. The programme is regularly evaluated and updated to conform to scientific progress and community needs. It aims to attract teaching staff and first-class students and to share and apply research findings to improve education at all levels. To develop the academic programme, the following steps should be taken: defining the vision, mission and objectives of the programme; providing training to staff and teaching staff; conducting self-assessments; preparing reports; conducting field visits; meeting with teaching staff, students and graduates; and reviewing past achievements.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
First	DNT101	General Anatomy	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT102	Biology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT103	Medical physics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT104	Medical chemistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT105	Dental Anatomy	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	UOA141	Computer	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	UOA135	Democratic and Human Rights	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	UOA140	Medical Terminology	Basic	√	√	√	√	√	√	√	√	√	√	√	√

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Second	DNT201	General Anatomy	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT204	Biochemistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT202	Oral Histology and Embryology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT205	Dental Materials	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT203	General Histology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT206	Prosthodontics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT207	General physiology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	UOA201	جرائم حزب البعث البائد	Basic	√	√	√	√	√	√	√	√	√	√	√	√

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Third	DNT308	Community Dentistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT307	Dental Radiology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT303	General Pathology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT306	Prosthodontic	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT301	Oral surgery	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT304	Pharmacology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT302	Microbiology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT305	Conservative dentistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT309	Dental Ethics	Basic	√	√	√	√	√	√	√	√	√	√	√	√

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Fourth	DNT408	General Surgery	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT402	Oral Pathology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT401	Oral Surgery	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT403	Orthodontics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT404	Pediatric Dentistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT407	Periodontic	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT406	Prosthodontic	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT405	Conservative Dentistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT409	General Medicine	Basic	√	√	√	√	√	√	√	√	√	√	√	√

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Fifth	DNT506	Prosthodontic	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT502	Oral Medicine	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT501	Oral Surgery	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT503	Orthodontics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT504	Pediatric Dentistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT508	Preventive Dentistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT507	Periodontic	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	DNT505	Conservative Dentistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√

Course Description

1. Course Name:	
Biology	
2. Course Code:	
DNT102	
3. Semester / Year:	
2025-2024/first	
4. Description Preparation Date:	
2025/6/6	
5. Available Attendance Forms:	
lectures and practical practice	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 hr/60 hr/6	
7. Course administrator's name (mention all, if more than one name)	
Lecturer Dr. Zainab Yousif Assist. Prof. Karama Tahrir Ahmed den.karama.tahrer@uoanbar.edu.iq Assist. Prof. Khadija Khleaf Abdulla den.khadija.khlif@uoanbar.edu.iq Assist. Lecturer Zainab Kamil Yousif den.zaynab.kaml@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	The student learns the basics of biology and its branches, such as cell and histol bacteriology, and molecular biology. The student also learns parasitology and example the most common pathogenic parasites that infect humans, such as intestinal and parasites
9. Teaching and Learning Strategies	
Strategy	Lectures that encourage students and teach them ways to confront and solve problems. - Monitoring the way students think, their ways of expression, and their speed of respon - Experiments in laboratories. -Self education

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Introduction to medical and oral biology	Biology	Lectures and practical practice	Daily, semester, and final exams
2	2	Prokaryotic and eukaryotic	Biology	Lectures and practical practice	Daily, semester, and final exams
3	2	General and oral immunology	Biology	Lectures and practical practice	Daily, semester, and final exams
4	2	Bacteria and Oral disease	Biology	Lectures and practical practice	Daily, semester, and final exams
5	2	Genetics and its role in oral disease	Biology	Lectures and practical practice	Daily, semester, and final exams
6	2	Simple epithelial tissue stratified epithelial tissue	Biology	Lectures and practical practice	Daily, semester, and final exams
7	2	Glandular epithelial tissue	Biology	Lectures and practical practice	Daily, semester, and final exams
8	2	General connective tissue and blood	Biology	Lectures and practical practice	Daily, semester, and final exams
9	2	Muscular tissue	Biology	Lectures and practical practice	Daily, semester, and final exams
10	2	Nerve tissue	Biology	Lectures and practical practice	Daily, semester, and final exams
11	2	Cell structure (oral mucous membrane)	Biology	Lectures and practical practice	Daily, semester, and final exams
12	2	Plasma membrane structure and passage of materials across cell membrane	Biology	Lectures and practical practice	Daily, semester, and final exams
13	2	Cell energy	Biology	Lectures and practical practice	Daily, semester, and final exams
14	2	Cell cycle ,Mitosis and miosis	Biology	Lectures and practical practice	Daily, semester, and final exams
15	2	Nucleic acid ,DNA and RNA	Biology	Lectures and practical practice	Daily, semester, and final exams
16	2	Introduction to parasitology Types of parasites and host General	Biology	Lectures and practical practice	Daily, semester, and final exams

		and oral protozoa			
17	2	Human amoebas E.histolytica ,E.coli E.gingivalis	Biology	Lectures and practical practice	Daily, semester, and final exams
18	2	Flagellates ,Giardia lamblia ,Trichomonas tenax , .T.hominas ,T.vaginalis	Biology	Lectures and practical practice	Daily, semester, and final exams
19	2	Leishmania ,cutaneous and vesiral	Biology	Lectures and practical practice	Daily, semester, and final exams
20	2	, Sporozoa ,plasmodium spp	Biology	Lectures and practical practice	Daily, semester, and final exams
21	2	Toxoplasma gondi Nemathelminthes ,Ascaris	Biology	Lectures and practical practice	Daily, semester, and final exams
22	2	Ancylostoma duodenale ,Enterobius vermicularis	Biology	Lectures and practical practice	Daily, semester, and final exams
23	2	Platyhelminthes ,Fasciola hepatica ,Schistosoma spp	Biology	Lectures and practical practice	Daily, semester, and final exams
24	2	Overview of biological safety & security equipment Introduction of biosecurity risk characterization in biosecurity vulnerability assessment components of laboratory biosecurity	Biology	Lectures and practical practice	Daily, semester, and final exams
25	2	Biosafety practices part biosafety rules simulations 3D Disinfection &sterilization hazardous chemical decontamination and biological wast disposal	Biology	Lectures and practical practice	Daily, semester, and final exams
26	2	Biosafety practices part biosafety rules simulations 3D	Biology	Lectures and practical practice	Daily, semester, and final exams

		Disinfection &sterilization hazardous chemical decontamination and biological wast disposal			
27	2	Biosafety practices part biosafety rules simulations 3D Disinfection &sterilization hazardous chemical decontamination and biological wast disposal	Biology	Lectures and practical practice	Daily, semester, and final exams
28	2	Biosafety practices part biosafety rules simulations 3D Disinfection &sterilization hazardous chemical decontamination and biological wast disposal	Biology	Lectures and practical practice	Daily, semester, and final exams
29	2	Biosafety practices part biosafety rules simulations 3D Disinfection &sterilization hazardous chemical decontamination and biological wast disposal	Biology	Lectures and practical practice	Daily, semester, and final exams
30	2	Biosafety practices part biosafety rules	Biology	Lectures and practical practice	Daily, semester, and final exams

		simulations 3D Disinfection &sterilization hazardous chemical decontamination and biological wast disposal			

11. Course Evaluation

Final exams	daily exams	Lab.	semester
60	1	7	12

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Biology - 2e Mary Ann Clark, Fort Worth, Texas Jung Choi, Marietta, Georgia Matthew Douglas, Grand Rapids, Michigan ,2018
Main references (source)	Jawetz, Melnick, & Adelberg's Medical Microbiology, 28e
Recommended books and references (scienti journals, reports…)	Reports
Electronic references, websites.	websites of college

Laboratory sessions

Lab number	Study unit title	Hours
1	Laboratory safety	2
2	Parts of microscope	2
3	Types of cells	2
4	Simple epithelial tissue	2
5	Stratified epithelia tissue	2
6	Glandular epithelial tissue	2
7	Serous, Mucous, Sero-mucous cell glands	
8	Proper connective tissue, Loose	2

9	Proper connective tissue, dense	2
10	Special connective tissue, type of cells	2
11	Cartilage, Hyaline, Elastic, Fibro	2
12	Compact and spongy bone	2
13	Human Blood, W.B.C , R.B.C and frog blood	2
14	Muscular tissue: Skeletal, cardiac and smooth muscles	2
15	Nerve cell	2
16	Central and peripheral nerve system	2
17	Spinal cord and meninges	2
18	*Entamoeba histolytica , Entamoeba coli*	2
19	*Giardia lamblia , Trichomonas vaginalisTrichomonan tenax*	2
20	*Leishmania tropica,Leshmania donovani*	2
21	*Trypanosoma gambiense,T.rhodesiense*	2
22	*Plasmodium vivax, Toxoplasma gondii*	2
23	*Balantidium coli*	2
24	*Echinococcus granulosus,Taenia saginataTaenia solium*	2
25	*Ancylostoma, Ascaris , Entrobius*	2
26	*Schistosoma spp, Fasciola hepatica*	2
27	Endoskeleton of a frog	2
28	Experiment...examine samples of water	2
29	Experiment...examine samples of water (one hour),	2
30	Experiment ...Blood groups	2

Course Description

1. Course Name:	
Medical Physics	
2. Course Code:	
DNT103	
3. Semester / Year:	
2025-2024/ first	
4. Description Preparation Date:	
2025/6/6	
5. Available Attendance Forms:	
lectures and practical practice	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 hr/60 hr/6 units	
7. Course administrator's name (mention all, if more than one name)	
Ehsan Ali Abed den.ehsan.ali@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	Study and application of physical concepts in dentistry
9. Teaching and Learning Strategies	
Strategy	Lectures that encourage students and teach them ways to confront ar solve problems. – Monitoring the way students think, their ways of expression, and the speed of response. – Experiments in laboratories. –Self education

	Students, 2014 3. THE PHYSICS OF RADIATION THERAPY, 2003
Recommended books and references (scientific journ reports…)	Reports
Electronic references, websites.	Websites of college

Course Description

1. Course Name:
Medical chemistry
2. Course Code:
DNT104
3. Semester / Year:
2025-2024/ first
4. Description Preparation Date:
2025/6/6
5. Available Attendance Forms:
lectures and practical practice
6. Number of Credit Hours (Total) / Number of Units (Total)
60 hr/60 hr/6 units
7. Course administrator's name (mention all, if more than one name)
Mahmoud Saleh Muter den.mahmood.sale@uoanbar.edu.iq

8. Course Objectives	
Course Objectives	The student should know the science of chemistry and its branches.To distinguish between the branches of chemistry. The student knows the relationship between chemistry and daily life, and recognises. Regarding the nature of the material, the student should distinguish between subjects and learn how to deal with them quantitatively and qualitatively. The student should know the truth about the chemical reaction, its conditions and factors. To determine the reactions occurring within the body and their relationship to growth and health. And illness
9. Teaching and Learning Strategies	
Strategy	Lectures that encourage students and teach them ways to confront and solve problems. - Monitoring the way students think, their ways of expression, and their speed of respon - Experiments in laboratories.Self-education

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Acid, Base and Salt	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
2	2	salts, preparation of salts	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
3	2	Fluid and electrolyte	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
4	2	Buffer-pH and Acid-Base Balance	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
5	2	acid-base balance and blood pH	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
6	2	Colloids and colloidal dispersions	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
7	2	Molar concentration (Molarity)	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
8	2	Chirality in Biological Systems	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
9	2	Pollution	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
10	2	Radiochemistry	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
11	2	Alkanes and Cycloalkanes	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
12	2	Alkenes and Alkynes	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams

13	2	Aromatic compounds	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
14	2	Aromatic compounds in Nature	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
15	2	Stereoisomers of Carbon	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
16	2	Diastereomers	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
17	2	Phenols (preparation, reactions)	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
18	2	Carboxylic Acids And Their Derivatives	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
19	2	Amides	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
20	2	Aldehydes and ketones	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
21	2	Carbohydrates	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
22	2	Monosaccharide's	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
23	2	Disaccharides	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
24	2	Lipids	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
25	2	Derived lipids	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
26	2	Proteins and Amino Acids	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams

27	2	Amino acids	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
28	2	Nucleic Acids	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
29	2	Acid, Base and Salt	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams
30	2	Examination	Medical chemistry	Lectures and practical practice	Daily, semester, and final exams

11. Course Evaluation

Final exams	daily exams	Lab.	semester
60	2	6	12

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Foye's Principles of Medicinal Chemistry" (7th Ed.) – Thomas L. Lemke, David A. Williams
Main references (source)	A comprehensive textbook covering drug design, mechanisms, and therapeutic applications.
Recommended books and references (scientific journals, reports…)	Wilson and Gisvold's Textbook of Organic Medicinal and Pharmaceutical Chemistry" (12th Ed.) – John Block, John Beale
Electronic references, websites.	"The Practice of Medicinal Chemistry" (4th Ed.) – Camille G. Wermuth "Medicinal Chemistry: An Introduction" – Gareth Thomas

Course Description

1. Course Name:	
Computer	
2. Course Code:	
UOA141	
3. Semester / Year:	
2024-2025/First Year	
4. Description Preparation Date:	
05/06/2025	
5. Available Attendance Forms:	
Lectures and practical practice	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30hr/2 units	
7. Course administrator's name (mention all, if more than one name)	
Assist. Lecturer Lamia Faris Email: den.lamia.faris@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	The Computers Unit teaches computer applications computer applications for all scien departments. The goal of the unit is to teach students and prepare them to pursue the to they receive in some specialised lessons
9. Teaching and Learning Strategies	
Strategy	Lectures that encourage students and teach them ways to confront and solve problems - Monitoring the way students think, their ways of expression, and their speed of respon - Experiments in laboratories. -Self education

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	Introduction about compute /Hardware and Software	Computer	Lectures and practical practice	Daily, semester, and final exams
2	1	computer structure/`Floppy magnetic disks	Computer	Lectures and practical practice	Daily, semester, and final exams
3	1	Introduction to E-learning	Computer	Lectures and practical practice	Daily, semester, and final exams
4	1	Google Classroom Platform	Computer	Lectures and practical practice	Daily, semester, and final exams
5	1	Google drive	Computer	Lectures and practical practice	Daily, semester, and final exams
6	1	Google forms	Computer	Lectures and practical practice	Daily, semester, and final exams
7	1	Online conferencing	Computer	Lectures and practical practice	Daily, semester, and final exams
8	1	A look at Windows 10/Stating Windows 10/	Computer	Lectures and practical practice	Daily, semester, and final exams
9	1	Working with a windows Program	Computer	Lectures and practical practice	Daily, semester, and final exams
10	1	Working with files and folders/ Using My computer	Computer	Lectures and practical practice	Daily, semester, and final exams
11	1	Working with Taskbar	Computer	Lectures and practical practice	Daily, semester, and final exams

		and Desktop - Using Windows Accessories			
12	1	A look at Control Panel	Computer	Lectures and practical practice	Daily, semester, and final exams
13	1	Widows Explorer	Computer	Lectures and practical practice	Daily, semester, and final exams
14	1	Libraries	Computer	Lectures and practical practice	Daily, semester, and final exams
15	1	Introduction about Microsoft Word2016	Computer	Lectures and practical practice	Daily, semester, and final exams
16	1	Introduction about Microsoft Word2016	Computer	Lectures and practical practice	Daily, semester, and final exams
17	1	A look at Microsoft Word /Editing Document	Computer	Lectures and practical practice	Daily, semester, and final exams
18	1	Formatting Text	Computer	Lectures and practical practice	Daily, semester, and final exams
19	1	Formatting paragraphs , Proofing documents	Computer	Lectures and practical practice	Daily, semester, and final exams
20	1	Adding Tables	Computer	Lectures and practical practice	Daily, semester, and final exams
21	1	Inserting Graphic Elements	Computer	Lectures and practical practice	Daily, semester, and final exams
22	1	Controlling page Appearance	Computer	Lectures and practical practice	Daily, semester, and final exams

23	1	**Introduction about Excels /A Look at Microsoft Excel**	**Computer**	Lectures and practical practice	Daily, semester, and final exams
24	1	**modifying A Worksheet /performing Calculations**	**Computer**	Lectures and practical practice	Daily, semester, and final exams
25	1	**Formatting a worksheet/ Developing a work book**	**Computer**	Lectures and practical practice	Daily, semester, and final exams
26	1	**Printing Workbook Contents/ Customizing Layout**	**Computer**	Lectures and practical practice	Daily, semester, and final exams
27	1	**Introduction about Microsoft Access/ A look at Microsoft Access**	**Computer**	Lectures and practical practice	Daily, semester, and final exams
28	1	**Creating Data tables /properties of the fields**	**Computer**	Lectures and practical practice	Daily, semester, and final exams
29					
30					

11. Course Evaluation

Final exams	daily exams	Lab.	semester
60	2	8	10

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	The principle of computer science
Main references (source)	
Recommended books and references (scientific journals, reports…)	Reports
Electronic references, websites.	Websites of the college

Laboratory sessions

10	**A look at Control Panel**	**1**
11	**Widows Explorer**	**1**
12	**Libraries**	**1**
13	**Introduction about Microsoft Word A look at Microsoft Word /Editing Document**	**1**
14	**Formatting Text/**	**1**
15	**Formatting paragraphs**	**1**
16	**Proofing documents**	**1**
17	**Adding Tables**	**1**
18	**Inserting Graphic Elements**	**1**
19	**Controlling page Appearance**	**1**
20	**Introduction about Excels /A Look at Microsoft Excp**	**1**
21	**Modifying A Worksheet /performing Calculations**	**1**
22	**Formatting a worksheet/ Developing a work book**	**1**
23	**Printing Workbook Contents/Customizing Layout**	**1**
24	**Introduction about Microsoft Access/ A look at Microsoft Access**	**1**
25	**Creating Data tables /properties of the fields**	**1**
26	**Querying the database/Designing Forms/Producing reports**	**1**
27	**Introduction about Microsoft Power point/starting power point**	**1**
28	**Formatting text/Using graphics and Text**	**1**
29	**Manipulating the slides/Using Multimedia Elements**	**1**
30	**Power point Management**	**1**
Total		**30**

1. Course Name:	
Medical Physics	
2. Course Code:	
DNT103	
3. Semester / Year:	
2025-2024/ first	
4. Description Preparation Date:	
2025/6/6	
5. Available Attendance Forms:	
lectures and practical practice	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 hr/60 hr/6 units	
7. Course administrator's name (mention all, if more than one name)	
Ehsan Ali Abed den.ehsan.ali@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	Study and application of physical concepts in dentistry
9. Teaching and Learning Strategies	
Strategy	Lectures that encourage students and teach them ways to confront ar solve problems. – Monitoring the way students think, their ways of expression, and the speed of response. – Experiments in laboratories. –Self education

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Terminology Terms: Medical Physics, physical medicine, Physical therapy, Health Physics, Radiological Physics, clinical physics. Modeling, Accuracy, Precision, False Positive, False Negative	Physics	Lectures and practical practice	Daily, semester, and final exams
2	2	Terminology Terms: Medical Physics, physical medicine, Physical therapy, Health Physics, Radiological Physics, clinical physics. Modeling, Accuracy, Precision, False Positive, False Negative	Physics	Lectures and practical practice	Daily, semester, and final exams
3	2	*Force on &in body:* Static forces :(type of levers with medical examples). Dynamic forces (Centrifuge	Physics	Lectures and practical practice	Daily, semester, and final exams
4	2	*Force on &in body:* Static forces :(type of levers with medical examples). Dynamic forces (Centrifuge	Physics	Lectures and practical practice	Daily, semester, and final exams
5	2	*Physics of the skeleton:* Bones:(Function of bones, Composition of bone, bone remodeling, compact and trabecular bone) Stress-strain curve :(compressive and	Physics	Lectures and practical practice	Daily, semester, and final exams

		tensile stress, young modulus). Bone joints :(Synovial fluid, coefficient of a joint).			
6	2	*Physics of the skeleton:* Bones:(Function of bones, Composition of bone, bone remodeling, compact and trabecular bone) Stress-strain curve :(compressive and tensile stress, young modulus). Bone joints :(Synovial fluid, coefficient of a joint).	Physics	Lectures and practical practice	Daily, semester, and final exams
7	2	*Heat and cold in medicine:* Physical basis of heat and temperature, Temperature scales, Converting Temperatures, Temperature in Dentistry, Thermal expansion, (Linear, Area, Volume Thermal Expansion), Thermometry, Heat therapy, Thermography, Cold in medicine and cryosurgery. Thermal conductivity.	Physics	Lectures and practical practice	Daily, semester, and final exams
8	2	*Heat and cold in medicine:* Physical basis of heat and temperature, Temperature scales, Converting Temperatures, Temperature in Dentistry, Thermal expansion, (Linear, Area, Volume Thermal Expansion),	Physics	Lectures and practical practice	Daily, semester, and final exams

		Thermometry, Heat therapy, Thermography, Cold in medicine and cryosurgery. Thermal conductivity.			
9	2	*Energy, work and power of the body:* First law of thermodynamic. Energy change in the body (Met, Basal metabolic rate (BMR). Work and power. Efficiency heat losses from the body. Anaerobic phase and aerobic phase. Hypothalamus (body's thermostat).Heat lost by (radiation, convection, evaporation of sweat and respiration).	Physics	Lectures and practical practice	Daily, semester, and final exams
10	2	*Energy, work and power of the body:* First law of thermodynamic. Energy change in the body (Met, Basal metabolic rate (BMR). Work and power. Efficiency heat losses from the body. Anaerobic phase and aerobic phase. Hypothalamus (body's thermostat).Heat lost by (radiation, convection, evaporation of sweat and respiration).	Physics	Lectures and practical practice	Daily, semester, and final exams
11	2	*Pressure:*	Physics	Lectures and practical practice	Daily, semester, and final exams

		Definition, absolute pressure, gauge pressure, negative pressure, unit of pressure. Measurement of pressure in the body (Manometer).Pressure inside the skull. Eye pressure. Pressure in the skeleton. Pressure in the urinary bladder.Boyle's law: (pressure while diving).HOT (hyperbaric oxygen therapy).			
12	2	*Pressure:* Definition, absolute pressure, gauge pressure, negative pressure, unit of pressure. Measurement of pressure in the body (Manometer).Pressure inside the skull. Eye pressure. Pressure in the skeleton. Pressure in the urinary bladder.Boyle's law: (pressure while diving).HOT (hyperbaric oxygen therapy).	Physics	Lectures and practical practice	Daily, semester, and final exams
13	2	*Electricity within the body:* Electrical potential of nerves (resting potential, action potential in myelinated and unmyelinated nerves) Electromyogram (EMG). Electrical potential in the heart (electrocardiogram ECG).	Physics	Lectures and practical practice	Daily, semester, and final exams

		Electroencephalogram (EEG)			
14	2	*Electricity within the body:* Electrical potential of nerves (resting potential, action potential in myelinated and unmyelinated nerves) Electromyogram (EMG). Electrical potential in the heart (electrocardiogram ECG). Electroencephalogram (EEG)	Physics	Lectures and practical practice	Daily, semester, and final exams
15	2	*Sound in medicine:* Properties of sound. Stethoscope (including heart sound).mechanism of hearing	Physics	Lectures and practical practice	Daily, semester, and final exams
16	2	*Sound in medicine:* Properties of sound. Stethoscope (including heart sound).mechanism of hearing	Physics	Lectures and practical practice	Daily, semester, and final exams
17	2	*Ultrasound* (A-scan, B-scan, M-scan and Doppler effect). Physiological effect of ultrasound in therapy	Physics	Lectures and practical practice	Daily, semester, and final exams
18	2	*Ultrasound* (A-scan, B-scan, M-scan and Doppler effect). Physiological effect of ultrasound in therapy	Physics	Lectures and practical practice	Daily, semester, and final exams
19	2	*Light in medicine:* Light nature, Planck (Reflection, Refract Absorption of Light, I reflection, Specular r of ultraviolet and inf in medicine, Tanning and Skin Cancer	Physics	Lectures and practical practice	Daily, semester, and final exams

20	2	*Light in medicine:* Light nature, Planck Equation, (Reflection, Refraction and Absorption of Light, Properties of light), Diffuse reflection, Specular reflection, Phototherapy, Application of ultraviolet and infrared light in medicine, Tanning and Skin Cancer.	Physics	Lectures and practical practice	Daily, semester, and final exams
21	2	*Laser in medicine*. What is laser? Application of laser in medicine Atomic Transitions, Population inversion, Laser Typical Characteristics, General Applications of Laser, Laser Dental Applications, Reshape gum tissue, Laser aided teeth whitening, Laser Drill.	Physics	Lectures and practical practice	Daily, semester, and final exams
22	2	*Laser in medicine*. What is laser? Application of laser in medicine Atomic Transitions, Population inversion, Laser Typical Characteristics, General Applications of Laser, Laser Dental Applications, Reshape gum tissue, Laser aided teeth whitening, Laser Drill.	Physics	Lectures and practical practice	Daily, semester, and final exams
23	2	*Physics of eye and vision:*	Physics	Lectures and practical practice	Daily, semester, and final exams

		Focusing element of the eye (cornea, lens). Element of the eye (pupil, aqueous humor, vitreous humor, sclera).Visual acuity, Snellen chart, optical density.			
24	2	*Physics of eye and vision:* Focusing element of the eye (cornea, lens). Element of the eye (pupil, aqueous humor, vitreous humor, sclera).Visual acuity, Snellen chart, optical density.	Physics	Lectures and practical practice	Daily, semester, and final exams
25	2	*Physics of diagnostic X-ray:* Properties of X-ray, production of X-ray. Absorption of X-ray, contrast media-ray image (penumbra, grid, and intensifying screens).Radiation to patients from X-ray (filters).	Physics	Lectures and practical practice	Daily, semester, and final exams
26	2	*Physics of diagnostic X-ray:* Properties of X-ray, production of X-ray. Absorption of X-ray, contrast media-ray image (penumbra, grid, and intensifying screens).Radiation to patients from X-ray (filters).	Physics	Lectures and practical practice	Daily, semester, and final exams
27	2	*Physics of nuclear medicine:* Radioactivity decay, half-life, units. Basic instrumentation and its medical	Physics	Lectures and practical practice	Daily, semester, and final exams

		application (GM-tube, Photomultiplier tube, scintillation detector, solid state detector).Therapy with radioactivity. Radiation doses in nuclear medicine.			
28	2	*Physics of nuclear medicine:* Radioactivity decay, half-life, units. Basic instrumentation and its medical application (GM-tube, Photomultiplier tube, scintillation detector, solid state detector).Therapy with radioactivity. Radiation doses in nuclear medicine.	Physics	Lectures and practical practice	Daily, semester, and final exams
29	2	*Physics of radiation therapy:* The dose units (Rad and Gray).Principles of radiation therapy. Brach therapy, quality factor (QF).	Physics	Lectures and practical practice	Daily, semester, and final exams
30	2	*Physics of radiation therapy:* The dose units (Rad and Gray).Principles of radiation therapy. Brach therapy, quality factor (QF).	Physics	Lectures and practical practice	Daily, semester, and final exams

11. Course Evaluation

Final exams	daily exams	Lab.	semester
60	1	7	12

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Medical Physics, John R Cameron 1992 Physics of the Human Body 2006
Main references (source)	1. Diagnostic Radiology Physics: A Handbook for Teachers and Students, 2014 2. Nuclear Medicine Physics: A Handbook for Teachers and

	Students, 2014 3. THE PHYSICS OF RADIATION THERAPY, 2003
Recommended books and references (scientific journ reports…)	Reports
Electronic references, websites.	Websites of college

Course Description

1. Course Name:
Medical chemistry
2. Course Code:
DNT104
3. Semester / Year:
2025-2024/ first
4. Description Preparation Date:
2025/6/6
5. Available Attendance Forms:
lectures and practical practice
6. Number of Credit Hours (Total) / Number of Units (Total)
60 hr/60 hr/6 units
7. Course administrator's name (mention all, if more than one name)
Mahmoud Saleh Muter den.mahmood.sale@uoanbar.edu.iq

Course Description

1. Course Name: Medical Terminology
2. Course Code: UOA 140
3. Semester / Year: 2025-2025
4. Description Preparation Date: 4/5/2025
5. Available Attendance Forms: Student attendance at theoretical lectures
6. Number of Credit Hours (Total) / Number of Units (Total): 30 hours/2 credits
7. Course administrator's name (mention all, if more than one name)
Assist Lecturer Noor Hameed Mujeet
8. Course Objectives

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

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

9. Teaching and Learning Strategies

Strategy	Students Collaborative method Brainstorming Correlating images with the terms

10. Course Structure

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

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

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

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description

1. Course Name:
Dental anatomy
2. Course Code:
DN105
3. Semester / Year:
2025-2024
4. Description Preparation Date:
2025/6/5
5. Available Attendance Forms:
Attendance and laboratory practice
6. Number of Credit Hours (Total) / Number of Units (Total)
60h theory -30 practical Units: 6
7. Course administrator's name (mention all, if more than one name)
Assistant lectuerer Sohaib Fadhil Mohammed sohaibfadhil85@uoanbar.edu.iq Assistant lectuerer Sura Yaseen Khudhur sura.yaseen@uoanbar.edu.iq
8. Course Objectives

Course Objectives	-Give a full information for students about dental anatomy of each tooth (permanent and deciduous) from its developments to its emergence and description of it anatomical landmarks with simple information about surrounding tissues. - Make the students imagine the proper tooth form when dealing with a patie in the future. - Give the students proper hand skills through laboratory work.
9. Teaching and Learning Strategies	
Strategy	-Theoretical lectures inside the classroom. - data show -lectures with questions and answers -Using the keynote program for presentation. -quizz - working in a laboratory - Agitation of students' minds through their thoughts about special dental wo related to dental anatomy.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	-Crown and roots - surfaces and ridg - division of the crown into thirds	Introduction	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
2	4	-Universal notatio system - Palmer notation system - FDI notation sys	Numbering Systems	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
3	4		Anatomical Landmarks	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
4	4	- Characteristic features of incisors crown -Principles identifying features of permanent maxillary central incisor -labial aspect -lingual aspect -mesial aspect -distal aspect -incisal aspect	Permanent Maxillary Central Incisor	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
5	4	-Principles identifying features of permanent maxillary lateral incisor -labial aspect -lingual aspect -mesial aspect -distal aspect -incisal aspect - Variations from the typical	Permanent Maxillary Lat Incisor	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory

		form (Anomalies)			
6	4	-Characteristic features of perma mandibular incisor -Principles identifying features of permanent mandibular central incisors -labial aspect -lingual aspect -mesial aspect -distal aspect -incisal aspect	Permanent Mandibular Incisors	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
7	4	-Principles identifying features of permanent mandibular lateral incisors -labial aspect -lingual aspect -mesial aspect -distal aspect -incisal aspect	Permanent Mandibular Incisors	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
8	4	-Principle identify features of the permanent maxilla canine -labial aspect -lingual aspect -mesial aspect -distal aspect -incisal aspect	Permanent Canines	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
9	4	-Principle identify features of the permanent mandibular canine labial aspect -lingual aspect -mesial aspect -distal aspect -incisal aspect	Permanent Canines	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
10	4	- Some character features of posterior teeth -Principle identify features of maxilla 1st premolar -buccal aspect -lingual aspect -mesial aspect -distal aspect	Permanent Maxillary Premolars	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory

		-occlusal aspect			
11	4	-Principle identify features of maxilla 2nd premolar -buccal aspect -lingual aspect -mesial aspect -distal aspect -occlusal aspect	Permanent Maxillary Premolars	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
12	4	-Characteristic features of perma mandibular premolar resemble those of mandibular canine -Characteristic features of permanent mandibular first premolar that resemble those of the mandibular second premolar -Principle identify features of mandib 1st premolar -buccal aspect -lingual aspect -mesial aspect -distal aspect -occlusal aspect	Permanent Mandibular F Premolars	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
13	4	-Principle identify features of mandib 2nd premolar -buccal aspect -lingual aspect -mesial aspect -distal aspect -occlusal aspect	Permanent Mandibular Second Premolar	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
14	4	-Principle identify features of maxilla 1st molar -buccal aspect -lingual aspect -mesial aspect -distal aspect -occlusal aspect	Permanent Maxillary First Molar	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
15	4	-Principle identify features of maxilla 2nd molar -buccal aspect -lingual aspect -mesial aspect -distal aspect	Permanent maxillary sec and third molars	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory

		-occlusal aspect -Principle identify features of maxilla 3rd molar			
16	4	-Principle identify features of mandib 1st molar -buccal aspect -lingual aspect -mesial aspect -distal aspect -occlusal aspect	Permanent Mandibular F Molar	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
17	4	-Principle identify features of mandib 2nd molar -buccal aspect -lingual aspect -mesial aspect -distal aspect -occlusal aspect -Principle identify features of mandib 3rd molar	Permanent Mandibular Second and third Molars	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
18	4	- Sequential order deciduous teeth according to erupti times -Deciduous teeth -The importance o the deciduous teeth -Maxillary deciduc teeth -Mandibular deciduous teeth -Principal differen between deciduous and permanent tee	Tooth Development	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
19	4	-Pulp cavities of th maxillary teeth -Pulp cavities of th mandibular teeth	Pulp Cavities	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory
20	4	-Occlusion deciduous dentitio -Occlusion in permanent dentition	Occlusion and physiologic form of teeth and periodontium	Lectures +laboratory	Daily, semeste and final exam = weekly evaluation in t laboratory

11. Course Evaluation

1	**The first theoretical exam**	**12**
2	**The first practical exam**	**8**
3	**The second theoretical exam**	**12**

4	**The second practical exam**	**8**
5	**Final practical and theoretical exam**	**60**

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Wheeler's (dental anatomy, physiology, and occlusion)
Main references (source)	dental anatomy and occlusion
Recommended books and references (scientific journals, reports…)	Monthly scientific journals, in addition t reports that work periodically to improve properties of materials
Electronic references, websites.	The Internet is great world for the purpos learning everything new in the field of de anatomy.

Course Description

1. Course Name:	
Human Anatomy	
2. Course Code:	
DNT101	
3. Semester/Year:	
Annually/First year	
4. Description Preparation Date:	
5/6/2025	
5. Available Attendance Forms:	
Lectures and Clinical Practice	
6. Number of Credit Hours (Total) / Number of Units (Total)	
120/6	
7. Course administrator's name (mention all, if more than one name)	
Lect. Dr. Annas Hammad Abed	
8. Course Objectives	
Course Objectives	The students learned scientific terms related to human autopsies, especially those relating to head and neck anatomy and their relationship to their exact specialities as dentists.
9. Teaching and Learning Strategies	
Strategy	1. Method of giving lectures by explaining and clarifying the use of PowerPoint. 2. Urge students to use the library as a learning method. 3. The self-learning method supports the learning environment. 4. Urge students to use the Internet as a supportive means of learning. 5. Use the principles of discussion and dialogue to increase student absorption. 6. Implementation of education through the practical part.

10. Course Structure

Week	Hours	ILOs	Unit/Module orTopic Title	Teaching Method	Assessment Method
1	2	Understanding concepts, basics and application	Introduction to Human Anatomy	Lecture delivery using the PowerPoint system	Written exam and clinical
2	2	Understanding concepts, basics and application	Descriptive Anatomic Terms	Lecture delivery using the PowerPoint system	Written exam and clinical
3	2	Understanding concepts, basics and application	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	Lecture delivery using the PowerPoint system	Written exam and clinical
4	2	Understanding concepts, basics and application	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	Lecture delivery using the PowerPoint system	Written exam and clinical
5	2	Understanding concepts, basics and application	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	Lecture delivery using the PowerPoint system	Written exam and clinical
6	2	Understanding concepts, basics and application	Basic Structures: Nervous System, Mucous Membranes, Serous	Lecture delivery using the PowerPoint system	Written exam and clinical
7	2	Understanding concepts, basics and application	Membranes	Lecture delivery using the PowerPoint system	Written exam and clinical
8	2	Understanding concepts, basics and application	Skeletal system of the body: Skull: Cranial Bones	Lecture delivery using the PowerPoint system	Written exam and clinical
9	2	Understanding concepts, basics and application	Skeletal system of the body: Skull: Cranial Bones	Lecture delivery using the PowerPoint system	Written exam and clinical
10	2	Understanding concepts, basics and application	Skeletal system of the body: Skull: Facial Bones	Lecture delivery using the PowerPoint system	Written exam and clinical
11	2	Understanding concepts, basics and	Skeletal system of the body: Skull : Facial Bones	Lecture delivery using the	Written exam and clinical

		application		PowerPoint system	
12	2	Understanding concepts, basics and application	External Views of the Skull	Lecture delivery using the PowerPoint system	امتحان
13	2	Understanding concepts, basics and application	External Views of the Skull	Lecture delivery using the PowerPoint system	امتحان
14	2	Understanding concepts, basics and application	The Cranial Cavity	Lecture delivery using the PowerPoint system	امتحان
15	2	Understanding concepts, basics and application	Major Foramina and Fissures locations and structures pass-through	Lecture delivery using the PowerPoint system	امتحان
16	2	Understanding concepts, basics and application	Neonatal Skull	Lecture delivery using the PowerPoint system	امتحان
17	2	Understanding concepts, basics and application	The Cranial Cavity	Lecture delivery using the PowerPoint system	امتحان
18	2	Understanding concepts, basics and application	Major Foramina and Fissures locations and structures pass-through	Lecture delivery using the PowerPoint system	امتحان
19	2	Understanding concepts, basics and application	Neonatal Skull	Lecture delivery using the PowerPoint system	امتحان
20	2	Understanding concepts, basics and application	Skeleton of the Orbital Region, Openings into the Orbital Cavity	Lecture delivery using the Power Point system	امتحان
21	2	Understanding concepts, basics and application	Skeleton of the External Nose, nasal cavity, Paranasal Sinuses	Lecture delivery using the PowerPoint system	امتحان
22	2	Understanding concepts, basics and application	Auditory ossicles	Lecture delivery using the PowerPoint system	امتحان
23	2	Understanding concepts, basics and application	Hyoid bone	Lecture delivery using the PowerPoint system	امتحان

24	2	Understanding concepts, basics and application	Skeleton of the Orbital Region, Openings into the Orbital Cavity	Lecture delivery using the PowerPoint system	امتحان
25	2	Understanding concepts, basics and application	Skeleton of the External Nose, nasal cavity, Paranasal Sinuses	Lecture delivery using the PowerPoint system	امتحان
26	2	Understanding concepts, basics and application	Auditory ossicles	Lecture delivery using the PowerPoint system	امتحان
27	2	Understanding concepts, basics and application	Hyoid bone	Lecture delivery using the PowerPoint system	امتحان
28	2	Understanding concepts, basics and application	The Vertebral Column	Lecture delivery using the PowerPoint system	امتحان

11. Course evaluation

Quizzes and short exams, questions and discussions in the lecture, absences, and the final exam. Practical: class exam, activity, practical exams, clinical training exams.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1.Snell's Clinical anatomy 7th edition. 2. Netter's head and neck anatomy for dentistry 2nd edition 2012.
Main references (source)	1.Snell's Clinical anatomy 7th edition. 2. Netter's head and neck anatomy for dentistry 2nd edition 2012.
Recommended books and references (scientific journals, reports…)	1.Snell's Clinical anatomy 7th edition. 2. Netter's head and neck anatomy for dentistry 2nd edition 2012.
Electronic references, websites.	Laboratories and workshops in addition to taking advantage of lectures posted on the College website The study includes hands-on training in anatomy models.

Course Description

1. Course Name:	
Biochemistry	
2. Course Code:	
DNT204	
3. Semester / Year:	
2024-2025	
4. Description Preparation Date:	
2025/6/6	
5. Available Attendance Forms:	
Attendance and clinical practice	
6. Number of Credit Hours (Total) / Number of Units (Total)	
120 hour /6 units	
7. Course administrator's name (mention all, if more than one name)	
Prof. Dr. Muna Mohammed Yaseen	
8. Course Objectives	
Course Objectives	The student should know the science of chemistry and its branches. To distinguish between the branches of chemistry. The student knows the relationship between chemistry and daily life, and recognises. Regarding the nature of the material, the student should distinguish between subjects and learn how to deal with them quantitatively and qualitatively. The student should know the truth about the chemical reaction, its conditions and factors. To determine the reactions occurring within the body and their relationship to growth and health. And illness
9. Teaching and Learning Strategies	
Strategy	Lectures that encourage students and teach them ways to confront solve problems. Monitoring the way students think, their ways of expression, and tl speed of response. Experiments in laboratories.Self-education

10. Course Structure

Week	Hours	ILOs	Unit/Module orTopic Title	Teaching Method	Assessment Method
1	2	Biochemistry	Enzymes: Definition Terminology:substrate;cofactor;coenzyme ….ect Classification Kinetic properties of enzyme Enzyme inhibition Model of enzyme – substrate binding Enzyme regulation Effect of pH and Temp. on enzyme activity Plasma enzymes in diagnosis	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams

			GPT and GOT LDH Isoenzymes		
2	2	Biochemistry	Classification	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
3	2	Biochemistry	Kinetic properties of enzyme	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
4	2	Biochemistry	Enzyme inhibition	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
5	2	Biochemistry	Model of enzyme – substrate binding	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
6	2	Biochemistry	Plasma enzymes in diagnosis	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
7	2	Biochemistry	Lipid: Lipid classes Lipid metabolism: Triacylglycerol synthesis F.A. degradation F.A. biosynthesis Regulation of F.A. metabolism in mammals Cholestrol metabolism	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
8	2	Biochemistry	metabolism Lipid	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
9	2	Biochemistry	Triacylglycerol synthesis	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
10	2	Biochemistry	F.A. degradation	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
11	2	Biochemistry	Carbohydrate metabolism: Glycogen metabolism (synthesis & degradation) Glycolysis and its Regulation Gluconeogenesis Metabolism of other important sugars Citric acid cycle and Regulation Electron transport system Oxidative phosphorylation Oxidative stress Glucose-6-phosphate dehydrognase deficiency	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
12	2	Biochemistry	Glycogen metabolism (synthesis & degradation	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams

13	2	Biochemistry	Glycolysis and its Regulation	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
14	2	Biochemistry	Gluconeognesis	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
15	2	Biochemistry	Metabolism of other important sugars	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
16	2	Biochemistry	Citric acid cycle and Regulation	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
17	2	Biochemistry	Citric acid cycle and Regulation	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
18	2	Biochemistry	Electron transport system	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
19	2	Biochemistry	Vitamins: Definition The major groups(fat& water soluble vitamins) Study the individual vitamins under certain general heading: sources,chemistry,metabolism,physiogical fuctions, deficiency diseases, daily requirements,hypervitaminosis,vitamin antagonists,vitamin A,D,E,K,C &B, niacin, pyridoxine, pantothenic acid ,biotin, folic acid	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
20	2	Biochemistry	The major groups(fat& water soluble vitamins)	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
21	2	Biochemistry	sources,chemistry ,metabolism,	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
22	2	Biochemistry	daily requirements,hypervit aminosis	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
23	2	Biochemistry	vitamin A,D,E,K,C	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
24	2	Biochemistry	Protein and aminoacids metabolism .Dynamic equilibrium and nitrogen balance .Essential and non-essential A.As	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams

			.Nitrogen catabolism of A.As .Formation of NH3 and urea .Metabolism and fate ofNH3 in the body a.Formation of urea (urea cycle) inherited disorder associated with urea cycle b.Glutamin formation c.Amination of alpha ketoacids .Fate of carbon skeletons break down of C,H,O. These pathways converge to form seven intermediate product a.Glycogenic amino acids b.Ketogenic amino acids .Amino acids degredation and synthesis c-A.As forming pyruvate d-A.As forming fumarate e-A.As forming actyl-coA or acetoacyl-coA f-A.As forming succinyl- coA 9.Decarboxylation reaction of amino acids and biogenic amines 10.Other nitrogen containing compounds which produced from A.As 11.Metabolic defects in A.As metabolism		
25	2	Biochemistry	.Dynamic equilibrium and nitrogen balance	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
26	2	Biochemistry	Essential and non-essential A.A	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
27	2	Biochemistry	Nitrogen catabolism of A.A	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
28	2	Biochemistry	Formation of NH3 and ure	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams

29	2	Biochemistry	Metabolism and fate ofNH3 in the body	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
30	2	Biochemistry	a.Formation of urea (urea cycle)	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
31	2	Biochemistry	a.Formation of urea (urea cycle)	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
32	2	Biochemistry	formation	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams
33	2	Biochemistry	c.Amination of alpha-ketoacids	Theoretical lecture using the power program point	Short, quarterly, half-year and final exams

11. Course Evaluation

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Lippincott'sIllustrated Reviews Biochemistry
Main references (source)	Lippincott'sIllustrated Reviews Biochemistry
Recommended books and references (scient journals, reports…)	Lippincott'sIllustrated Reviews Biochemistry
Electronic references, websites.	Internet website

Course Description

Semester / Year:2025-2025

2025

Description Preparation Date:

05/06/2025

Available Attendance Forms: Lectures

Attendance in the classroom of the theoretical subject

Number of Credit Hours (Total) / Number of Units (Total):

30 hours/ 2 units

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

Lecturer Dr. Majed Hamid Faraj Email:

Course Objectives

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

Teaching and Learning Strategies

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

34. Course Structure

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

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

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

35. Course Evaluation

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

15% mid exam
15% Annual pursuit (includes daily and monthly exams)
70% Final Theoretical Exam

36. Learning and Teaching Resources

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

Course Description

1. Course Name:
Dental material
2. Course Code:
DNT205
3. Semester / Year:
2024–2025
4. Description Preparation Date:
10/4/2025
5. Available Attendance Forms:
Theory and practical laboratories
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Theoretical lectures and 60 practical laboratories
7. Course administrator's name (mention all, if more than one name)
Assist. Prof. Dr. Abbas Ibrahim Hussein-Email: /den.ani.abbas@uoanbar.edu.iq Lact. Najatallah Taha Jazaa Ali/Email: den.najat.taha@uoanbar.edu.iq

8. Course Objectives	
Course Objectives	Enabling students to obtain knowledge and understanding of dental subjects. Students learn the basics of these subjects and how to use them in the fields of dentistry and link them to other sciences. Enabling students to obtain knowledge and understanding of these materials, in addition to familiarising students with all means of health awareness to prevent the harms resulting from the use of these materials and how to use them. Enabling students to obtain knowledge and understanding of each subject and what is the best way to use it without any loss of materials used in the field of dentistry
9. Teaching and Learning Strategies	
Strategy	Theoretical lectures inside the classroom. Student groups Laboratory activities E-learning on campus (use of the Internet)

10. Course Structure					
Week	Hours	ILOs	Unit/Module orTopic Title	Teaching Method	Assessmen tMethod
1	3	ntroduction to dental materials Physical, chemical and biological properties of dental materials	ntroduction and physical properties of dental material	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
2	3	Mechanical properties	Mechanical properties	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
3	3	Definition, requiremen t, types, gypsum bonded investment phosphate bonded investment ethyl silicate bonded	Gypsum materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
4	3		Gypsum materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
5	3	Definition Ideal properties of impression materials Classificatio n of impression materials Non elastic	Impression materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		impression materials mpression plaster Impression compound Zinc oxide - eugenol Elastomeric impression materia			
6	3	Dental impression - Definition Complete denture impression - Definition Objective of impression making Primary impression - Definition Materials used for making primary impression Primary cast - Definition Production of study cast Secondary impression - Definition Master castDefinition Materials used for final impression Technique used for making final	Impression materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		impression Boxing an impression and making the casts Advantages of boxing Common fault in impression making			
7	3		impression materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
8	3		impression materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
9	3		impression materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
10	3	Definition, Requirements, classification of wax according to origin & melting point, classification of wax according to uses, properties of dental waxes	Waxes	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
11	3		Waxes	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
12	3	Polymers and polymerization Definition of	Polymer	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		polymer, co -polymer, cross -link polymer and Degree of polymerizati on Factors which Chemically activated resin Compositio n Properties Light activated resin Compositio n Properties Chemically activated resin compared to heat activated resins Polymers used in dentistry Processing errors			
13	3		Polymers	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
14	3	factors affecting setting time, setting expansion, strength, storage and manipulatio n of gypsum products,	Investment materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		and hygroscopic expansion			
15	3	Classification of dental cements Definition Requirements	Cement materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
16	3	Definition indication Types Requirements	Temporary filling	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
17	3	Metallic denture base materials Types of metal and metal alloys Definition of alloy Requirement of casting alloy Application of dental alloy classification of metal classification of dental alloy gold foil (advantage, disadvantages) gold alloys Composition Propertie	Metal and metal alloy	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
18	3		Metal and metal alloy	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

19	3	Alternative of gold alloys Metal ceramic alloys Requirement Types Removable denture base alloys Requirements Types Co -Cr alloy Application Composition properties, Advantages Disadvantages	Metal and metal alloy	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
20	3	Titanium and Titanium alloys Applications Properties Ni/Cr alloys Composition Indications Wrought stainless steel alloy	Metal and metal alloy	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
21	3	Direct filling material Definition Factors causing loss of tooth substance Requiremen	Filling materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		t of an ideal filling material. Classification of filling material Anterior filling materials Disadvantages Composite filling materials composition and structure Types of composite Posterior filling materials Dental amalgam Classification of amalgam alloys Properties ofset amalgam Shaping and finishing Mercury toxicity			
22	3		Filling materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
23	3		Filling materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
24	3		Filling materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

25	3	Preventive materials	Preventive materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
26	3	Root canal filling materials materials)(obturating	Root canal filling materials materials)(obturating	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
27	3	Finishing and polishing material	Finishing and polishing material	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
28	3	Definition Types Requirements Indication Soft liners Types Requirements Indication Properties	Relining material	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
29	3	Implant materials	Implant materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
30	3	Maxillofacial materials	Maxillofacial materials	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

11. Course Evaluation

1	The first theoretical exam	12
2	The first practical exam	8
3	The second theoretical exam	12
4	The second practical exam	8
5	Final practical and theoretical exam	60

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Book of Dental materials
Main references (source)	Phillips, restorative of dental materials
Recommended books and references (scientific journals, reports…)	Monthly scientific journals, in addition to reports that work periodically to improve the properties of materials
Electronic references, websites.	Using the Internet for the purpose of learning everything new in the field of dental materials

Course Description

1. Course Name:
General histology
2. Course Code:
DNT203
3. Semester / Year:
2024-2025
4. Description Preparation Date:
2025/06/06
5. Available Attendance Forms:
Attendance and clinical practice
6. Number of Credit Hours (Total) / Number of Units (Total)
120 hours /2 Units
7. Course administrator's name (mention all, if more than one name)
Lecturer Dr. Qabas Hussein Allawi. Email: qabas.hussein@uoanbar.edu.iq.

8. Course Objectives	
Course Objectives	To teach students the practical and theoretical applications of the varic general body tissues and all body organs.
9. Teaching and Learning Strategies	
Strategy	• Lectures that encourage and teach students how to confront and so problems. • Monitor students' thinking, expression, and response speed. • Online classes

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	General histology	Cells and Basic .Tissues	Theoretical lecture using the program power point	**Short, quarterly, half-year and final exams**
2	2	General histology	Cells and Basic Tissue	Theoretical lecture using the program power point	**Short, quarterly, half-year and final exams**
3	2	General histology	Epithelial Tissues	Theoretical lecture using the program power point	**Short, quarterly, half-year and final exams**
4	2	General histology	Epithelial Tissues	Theoretical lecture using the program power point	**Short, quarterly, half-year and final exams**

5	2	General histology	Connective Tissues	Theoretical lecture using the program power point	**Short, quarterly, half-year and final exams**
6	2	General histology	Connective Tissues	Theoretical lecture using the program power point	**Short, quarterly, half-year and final exams**
7	2	General histology	Urinary system :Nephrons	Theoretical lecture using the program power point	**Short, quarterly, half-year and final exams**
8	2	General histology	Urinary system :Ureter	Theoretical lecture using the program power point	**Short, quarterly, half-year and final exams**
9	2	General histology	Hemopoiesis	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
10	2	General histology	Hemopoiesis	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
11	2	General histology	The circulatory system	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
12	2	General histology	The circulatory system	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
13	2	General histology	Lymphatic Vascular System And Lymphoid System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
14	2	General histology	Lymphatic Vascular System And Lymphoid System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
15	2	General histology	Skin : Epidermis	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
16	2	General histology	Skin : Dermis	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
17	2	General histology	Endocrine System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
18	2	General histology	Endocrine System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
19	2	General histology	Endocrine System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
20	2	General histology	The Nervous System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
21	2	General histology	The Nervous System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
22	2	General histology	The Nervous System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
23	2	General histology	The Digestive System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
24	2	General histology	The Digestive System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams

25	2	General histology	Male Reproductive system	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
26	2	General histology	Male Reproductive system	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
27	2	General histology	Female Reprod. System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
28	2	General histology	Female Reprod. System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
29	2	General histology	Sense Organ (Eye)	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
30	2	General histology	Sense Organ (Eye)	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
31	2	General histology		Theoretical lecture using the program power point	Short, quarterly, half-year and final exams

11. Course Evaluation

1. Attendance.
2. Class participation.
3. Homework.
4. Daily tests.
5. Exams (midterm and final).

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	/
Main references (source)	1.Junqueira's Basic Histology Text And Atlas. Anthony L. Mescher, Phd. Fifteenth Edition. 2. Textbook Of Human Histology (With Colour Atlas & Practical Guide). Jaypee Brothers Medical Publishers (P) Ltd New Delhi • St Louis (Usa) • Panama City (Panama) • London (Uk) • Ahmedabad Bengaluru • Chennai • Hyderabad • Kochi • Kolkata • Lucknow • Mumbai • Nagpur ® Inderbir Singh. Sixth Edition. 3. Difiore's Atlas Of Histology With Functional Correlations. Victor P. Eroschenko, Phd. Eleventh Edition. 4. Inderbir Singh's Textbook Of Human Histology With Colour Atlas And Practical Guide, By K Pushpalatha. Ninth Edition.

	5. Wheater's Functional Histology A Text And Colour Atlas. Barbara Young, Bsc Med Sci (Hons Phd, Mb Bchir, Mrcp, Frcpa. Sixth Edition.
Recommended books and references (scientific journa reports…)	Monthly scientific journals, in addition to periodic reports, aim to improve material properties.
Electronic references, websites.	Use the internet to learn about the latest developments the field of histology, as appropriate for dental requirements.

Course Description

1. Course Name:	
General physiology	
2. Course Code:	
DNT207	
3. Semester / Year:	
2025-2024	
4. Description Preparation Date:	
2025/6/6	
5. Available Attendance Forms:	
Attendance and clinical practice	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60/30/5	
7. Course administrator's name (mention all, if more than one name)	
Assist. Prof. Dr. Rana Hazim Hammoodi, Lecturer Dr. Thanaa Mustafa Ismail	
8. Course Objectives	
Course Objectives	• Identify the organs of the human body and the function of each organ • Learn about physiological medical terminology • Enable the student to possess sufficient medical knowledge in medical physiology • Find knowledge and understanding of complex physiological functions and how to translate knowledge to improve health and prevent diseas
9. Teaching and Learning Strategies	
Strategy	Lectures using the [Power Point] program • Presentation of education videos. • Guiding students to some websites to benefit from them • Follow up students' way of thinking, expression, and speed of response throu discussions.

10. Course Structure					
Week	**Hours**	**ILOs**	**Unit/Module or Topic Title**	**Teaching Method**	Assessment Method
1	2	physiology	Cell physiology	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
2	2	physiology	Nerve and muscle Microanatomy of nerves	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
3	2	physiology	Nerves(types of nerves)	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
4	2	physiology	Nerve (Types of muscles)	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
5	2	physiology	Nervous System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
6	2	physiology	Nervous System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
7		physiology	Nervous System	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
8		physiology	Red blood cells	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
9		physiology	Blood groups	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
10		physiology	Blood coagulation	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
11		physiology	Cardiovascular system	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
12		physiology	Cardiovascular system	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
13		physiology	Cardiovascular system	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
14		physiology	Cardiovascular system	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
15		physiology	RESPIRATIORY SYSTEM	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
16		physiology	RESPIRATIORY SYSTEM	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
17		physiology	RESPIRATIORY SYSTEM	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams

18		physiology	RESPIRATIORY SYSTEM	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
19		physiology	RENAL SYSTEM AND BODY FLUIDS	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
20		physiology	RENAL SYSTEM AND BODY FLUIDS	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
21		physiology	RENAL SYSTEM AND BODY FLUIDS	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
22		physiology	ENDOCRINE SYSTEM	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
23		physiology	ENDOCRINE SYSTEM	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
24		physiology	ENDOCRINE SYSTEM	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
25		physiology	SPECIAL SENSATION: Vision &Hearing	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
26		physiology	SPECIAL SENSATION: Vision &Hearing	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
27		physiology	ORAL CAVITY	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
28		physiology	GASTROINTESTIONA L TRACT	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
29		physiology	GASTROINTESTIONA L TRACT	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
30		physiology		Theoretical lecture using the program power point	Short, quarterly, half-year and final exams

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc. 15% mid exam
25% Annual pursuit (includes daily and monthly exams and practical requirements)
20% Final practical exam, 40% Final Theoretical Exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Medical Physiology 4th edition, Essentials of Physiology for Dental Students
Main references (source)	Medical Physiology 4th edition, Essentials of Physiology for Dental Students
Recommended books and references (scientific journa reports…)	Medical Physiology 4th edition, Essentials of Physiology for Dental Students
Electronic references, websites.	Internet

Course Description

1. Course Name:
Human Anatomy
2. Course Code:
DNT201
3. Semester/Year:
Annually/second year
4. Description Preparation Date:
5/6/2025
5. Available Attendance Forms:
Lectures and Clinical Practice
6. Number of Credit Hours (Total) / Number of Units (Total)
150/6
7. Course administrator's name (mention all, if more than one name)
Lect. Dr. Ahmed Jassam Mohammed Bakir

8. Course Objectives

Course Objectives	The students learned a number of scientific terms related to human autopsy, especially those related to head and neck anatomy and their relationship to their exact specialities as dentists.

9. Teaching and Learning Strategies

Strategy	1. Method of giving lectures by explaining and clarifying the use of PowerPoint. 2. Urge students to use the library as a learning method. 3. The self-learning method supports the learning environment. 4. Urge students to use the Internet as a supportive means of learning. 5. Use the principles of discussion and dialogue to increase student absorption. 6. Implementation of education through the practical part.

10. Course Structure

Week	Hours	ILOs	Unit/Module orTopic Title	Teaching Method	Assessment Method
1	2	Understanding concepts, basics and application	Introduction to Human Anatomy	Lecture delivery using the PowerPoint system	Written exam and clinical
2	2	Understanding concepts, basics and application	Descriptive Anatomic Terms	Lecture delivery using the PowerPoint system	Written exam and clinical
3	2	Understanding concepts, basics and application	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	Lecture delivery using the PowerPoint system	Written exam and clinical
4	2	Understanding concepts, basics and application	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	Lecture delivery using the PowerPoint system	Written exam and clinical
5	2	Understanding concepts, basics and application	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	Lecture delivery using the PowerPoint system	Written exam and clinical
6	2	Understanding concepts, basics and application	Basic Structures: Nervous System, Mucous Membranes, Serous	Lecture delivery using the PowerPoint system	Written exam and clinical
7	2	Understanding concepts, basics and application	Membranes	Lecture delivery using the PowerPoint system	Written exam and clinical
8	2	Understanding concepts, basics and application	Skeletal system of the body: Skull :Cranial Bones	Lecture delivery using the PowerPoint system	Written exam and clinical
9	2	Understanding concepts, basics and application	Skeletal system of the body: Skull :Cranial Bones	Lecture delivery using the PowerPoint system	Written exam and clinical
10	2	Understanding concepts, basics and application	Skeletal system of the body: Skull : Facial Bones	Lecture delivery using the PowerPoint system	Written exam and clinical
11	2	Understanding concepts, basics and application	Skeletal system of the body: Skull : Facial Bones	Lecture delivery using the PowerPoint system	Written exam and clinical

12	2	Understanding concepts, basics and application	External Views of the Skull	Lecture delivery using the PowerPoint system	Written exam and clinical
13	2	Understanding concepts, basics and application	External Views of the Skull	Lecture delivery using the PowerPoint system	Written exam and clinical
14	2	Understanding concepts, basics and application	The Cranial Cavity	Lecture delivery using the PowerPoint system	Written exam and clinical
15	2	Understanding concepts, basics and application	Major Foramina and Fissures locations and structures pass through	Lecture delivery using the PowerPoint system	Written exam and clinical
16	2	Understanding concepts, basics and application	Neonatal Skull	Lecture delivery using the PowerPoint system	Written exam and clinical
17	2	Understanding concepts, basics and application	The Cranial Cavity	Lecture delivery using the PowerPoint system	Written exam and clinical
18	2	Understanding concepts, basics and application	Major Foramina and Fissures locations and structures pass through	Lecture delivery using the PowerPoint system	Written exam and clinical
19	2	Understanding concepts, basics and application	Neonatal Skull	Lecture delivery using the PowerPoint system	Written exam and clinical
20	2	Understanding concepts, basics and application	Skeleton of the Orbital Region, Openings into the Orbital Cavity	Lecture delivery using the Power Point system	Written exam and clinical
21	2	Understanding concepts, basics and application	Skeleton of the External Nose, nasal cavity, Paranasal Sinuses	Lecture delivery using the PowerPoint system	Written exam and clinical
22	2	Understanding concepts, basics and application	Auditory ossicles	Lecture delivery using the PowerPoint system	Written exam and clinical
23	2	Understanding concepts, basics and application	Hyoid bone	Lecture delivery using the PowerPoint system	Written exam and clinical
24	2	Understanding concepts, basics and application	Skeleton of the Orbital Region, Openings into the Orbital Cavity	Lecture delivery using the PowerPoint system	Written exam and clinical

25	2	Understanding concepts, basics and application	Skeleton of the External Nose, nasal cavity, Paranasal Sinuses	Lecture delivery using the PowerPoint system	Written exam and clinical
26	2	Understanding concepts, basics and application	Auditory ossicles	Lecture delivery using the PowerPoint system	Written exam and clinical
27	2	Understanding concepts, basics and application	Hyoid bone	Lecture delivery using the PowerPoint system	Written exam and clinical
28	2	Understanding concepts, basics and application	The Vertebral Column	Lecture delivery using the PowerPoint system	Written exam and clinical

11. Course evaluation

Quizzes and short exams, questions and discussions in the lecture, absences, and the final exam. Practical: class exam, activity, practical exams, clinical training exams.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Snell's Clinical Anatomy, 7th edition. 2. Netter's head and neck anatomy for dentistry 2nd edition, 2012.
Main references (source)	1. Snell's Clinical Anatomy, 7th edition. 2. Netter's head and neck anatomy for dentistry 2nd edition, 2012.
Recommended books and references (scientific journals, reports…)	1. Snell's Clinical Anatomy, 7th edition. 2. Netter's head and neck anatomy for dentistry 2nd edition, 2012.
Electronic references, websites.	Laboratories and workshops, in addition to taking advantage of lectures posted on the College website The study includes hands-on training in anatomy models.

Course Description

1. Course Name:
Prosthetic
2. Course Code:
DNT206
3. Semester / Year:
2024−2025
4. Description Preparation Date:
10/4/2025
5. Available Attendance Forms:
Theory and practical laboratories
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Theoretical lectures and 60 practical laboratories
7. Course administrator's name (mention all, if more than one name)
1-Assist. Prof.Dr. Abbas Ibrahim Hussein- Email: den.ani.abbas@uoanbar.edu.iq Assist. lecturer Maha Mishaal Turki/ Email: maha-mishaal@uoanbar.edu.iq
8. Course Objectives

Course Objectives	Enabling students to obtain knowledge and understanding of the work of dentures. The student learns the basics of this work. Enabling students to obtain knowledge and how to deal with the patient without causing any harm to the patient. Enabling students to obtain knowledge and understanding of each subject and the best method of work through comprehensive knowledge of the anatomical signs that help stabilise the denture.
9. Teaching and Learning Strategies	
Strategy	Theoretical lectures inside the classroom. Student groups Laboratory activities, E-learning on campus (use of the Internet)

10. Course Structure

Week	Hours	ILOs	Unit/Module orTopic Title	Teaching Method	Assessment Method
1	3	Complete denture Objective of complete	Introduction	Lectures + laboratories	Daily, semester, and final exams = weekly

		denture General consideration in complete denture construction Complete denture component parts			evaluation in the laboratory
2	3	Anatomical landmarks Maxillary arch anatomical landmarks Supporting structures Limiting structures Relief areas	Anatomical landmarks	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
3	3	Anatomical landmarks Mandibular arch anatomical landmarks Supporting structures Limiting structures Relief areas	Anatomical landmarks	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
4	3	mpression tray - Definition Parts of the impression tray Types of tray Stock tray – Definition Types of stock trays Factors effect in selection of stock tray	Complete Denture Impression	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
5	3	Special tray Advantages ofspecial tray	Complete Denture Impression	Lectures + laboratories	Daily, semester, and final exams

		Materials used for construction ofspecial tray Types of special tray Techniques or methods for construction ofspecial tray Criteria for special tray construction			= weekly evaluation in the laboratory
6	3	Dental impression - Definition Complete denture impression - Definition Objective of impression making Primary impression - Definition Materials used for making primary impression Primary cast - Definition Production of study cast Secondary impression - Definition Master castDefinition Materials used for final impression Technique used for	Complete Denture Impression	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		making final impression Boxing an impression and making the casts Advantages of boxing Common fault in impression making			
7	3	Record base - Definition Requirements of record base Types of materials used in construction of record bas	Record Base	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
8	3	Occlusion rims - Definition Requirements of occlusion rim Materials used in construction of occlusion rim Measurements of maxillary occlusion rim Measurements of mandibular occlusion rim Uses of occlusion rim Occlusal plane Fox – bite	Occlusion Rims	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
9	3	emporomandibular joint (TMJ) – Definition Ligaments Muscles	Anatomy And Physiology Of Temporomandibular Joint	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

10	3	Mandibular axes and mandibular movements Knowledge of mandibular movements Mandibular movements	Anatomy And Physiology Of Temporomandibular Joint	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
11	3	Types of jaw relation Vertical jaw relation Rest position Inter – occlusal distance Importance of vertical dimension Increased vertical dimension Decreased vertical dimension	Maxillomandibular relation	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
12	3	Method of recording rest vertical dimension Method of recording occlusal vertical dimension Pre – extraction records Methods without pre – extraction record	Methods Of Recording Vertical Relation	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
13	3	Centric jaw relation Importance of centric jaw relation Methods of	Horizontal Jaw Relation	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		recording jaw relation Factors that complicates centric jaw relation Methods of recording eccentric jaw relation			
14	3	Dental articulator Definition Functions of articulator Requirements of articulator Types of articulato	Dental Articulators (Classification & Digital computerized articulator programming)	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
15	3	Face - bow Definition Parts of face – bow Types of face – bow Important of the face – bow	Face – Bow	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
16	3	Mounting Definition Preparation of articulator Preparation of the casts and mounting the upper cast on CL II articulator Mounting the lower cast Errors occurred during mountin	Mounting	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
17	3	Selection of anterior teeth The factors ofshade selection	Selection Of Artificial Teeth	Lectures + laboratories	Daily, semester, and final exams = weekly

		Size selection a. Length b. Width Form selection Materials o anterior teeth Difference between acrylic and porcelain teeth			evaluation in the laboratory
18	3	Shade Bucco -lingual width Mesio -distal length Occluso - gingival height Occlusal form Advantages of casp form teeth Advantages of non - cusp form teeth	Selection Of Posterior Teeth	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
19	3	Guideline of artificial teeth arrangement Arrangement of anterior teeth Arrangement of upper anterior teeth	Arrangement Of Artificial Teeth	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
20	3	Curve of Spee Compensatory curves Arrangement of lower posterior teeth Arrangement of upper posterior teeth	Arrangement Of Posterior Teeth	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		Common errors in arrangement of teeth			
21	3	Waxing Definition Requirements of waxing the polish surfaces The procedure of waxing Establishing the posterior palatalseal area Procedure for carving of posterior palatal seal area Advantages of posterior palatalseal Esthetic consideration in complete denture	Waxing And Carving	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
22	3	Occlusion Occlusion of complete denture Centric occlusion Centric relation	Complete Denture OcclusionWaxing And Carving	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
23	3	Eccentric occlusion Concepts of complete denture occlusion Try -in appointment	Complete Denture Occlusion	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
24	3	Flasking of the denture Flasking techniques	Processing Of The Denture (Flasking)	Lectures + laboratories	Daily, semester, and final exams = weekly

					evaluation in the laboratory
25	3	Causes of errors in occlusion Selective grinding Correction of occlusal errors Disadvantages of intra – oral correction Advantages of extra – oral Rules for selective grinding correction	Occlusal Correction	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
26	3	Procedure of finishing Grinding and cutting instruments Polishing of complete denture Principles of polishing Procedures of polishing	Finishing And Polishing Of Complete Denture	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
27	3	Types of material used in repair Causes of denture fracture Types of repair Laboratory procedure for repairing fractured denture base	Repair Of Complete Denture	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
28	3	Replacement of broken or missing tooth	Repair Of Complete Denture	Lectures + laboratories	Daily, semester, and final exams

		Replacement of missing or lost part Requirement of repair			= weekly evaluation in the laboratory
29	3	Relining And Rebasing	Relining And Rebasing	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
30	3	Relining And Rebasing	Relining And Rebasing	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
31					

11. Course Evaluation

1	The first theoretical exam	12
2	The first practical exam	8
3	The second theoretical exam	12
4	The second practical exam	8
5	Final practical and theoretical exam	60

12. Learning and Teaching Resources

Required textbooks (curricular books, any)	Book of Complete Denture.
Main references (source)	Complete denture.
Recommended books and references (scientific journals, reports…)	Monthly scientific journals, in addition to reports that work periodically to improve the properties of materials.
Electronic references, websites.	Using the Internet to learn everything new in the field of dental materials.

Course Description

1. Course Name:
Oral histology
2. Course Code:
DNT202
3. Semester / Year:
2024-2025
4. Description Preparation Date:
9/5/2025
5. Available Attendance Forms:
weekly
6. Number of Credit Hours (Total) / Number of Units (Total)
60 Hours theory/ 30 Hours practical
7. Course administrator's name (mention all, if more than one name)
Lect. Aseel Mohsin Yousif Lect.Abdulnasir Hatem Warwer
8. Course Objectives

Course Objective	Qualifying dentists are capable of identifying the importance of various oral tissues. Studying the cells forming oral hard tissues.
9. Teaching and Learning Strategies	
Strategy	Knowledge and understanding. The ability to distingu between oral soft &hard tissues

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	AssessmentMethod
1	2	Knowing development of emberyo	Embryogenesis: first week, ovulation, fertilization and implantation	Lectures	Exam + Seminar
2	2	Knowing development of emberyo	2nd week, Bilaminar germ layer	Lectures	Exam + Seminar
3	2	Knowing developmen	3rd week trilaminar germ	Lectures	Exam + Seminar

		t of embryo	layer: gastrulation and neurulation		
4	2	Knowing developmen t of embryo	Development of head and neck(pharyngea l arch, pouch & cleft)	Lectures	Exam + Seminar
5	2	Knowing developmen t of emberyo	Development of face and anomalies	Lectures	Exam + Seminar
6	2	Knowing developmen t of embryo	Development of tongue and anomalies	Lectures	Exam + Seminar
7	2	Knowing developmen t of embryo	Development of palate and anomalies	Lectures	Exam + Seminar
8	1	Knowing the tissues of oral cavity	Slide preparation: Sectioning, Staining	Lectures	Exam + Seminar
9	2	Knowing the tissues of oral cavity	Tooth development and developmental disturbances of teeth	Lectures	Exam + Seminar
10	2	Knowing the tissues of oral cavity	Dentinogenetic and dentin structure	Lectures	Exam + Seminar
11	2	Knowing the tissues of the oral cavity	amelogenesis and enamel structure	Lectures	Exam + Seminar
12	2	Knowing the tissues of the oral cavity	Clinical consideration: Genetic and local factors	Lectures	Exam + Seminar
13	2	Knowing the tissues of the oral cavity	Dental Pulp	Lectures	Exam + Seminar
14	2	Knowing the tissues of the oral cavity	Cementum and clinical consideration	Lectures	Exam + Seminar
15	2	Knowing the tissues of oral cavity	Root formation& Cementogenesi s	Lectures	Exam + Seminar
16	2	Knowing the tissues of oral cavity	Periodontal ligament	Lectures	Exam + Seminar
17	2	Knowing the tissues of oral cavity	Principles fiber of pdl and gingival fibers	Lectures	Exam + Seminar

18	2	Knowing the tissues of oral cavity	Alveolar bone	Lectures	Exam + Seminar
19	2	Knowing the tissues of oral cavity	Bone formation and resorption	Lectures	Exam + Seminar
20	2	Knowing the tissues of oral cavity	Proteins involve in mineralization of bone and dentin	Lectures	Exam + Seminar
21	2	Knowing the tissues of oral cavity	Oral mucosa and their types	Lectures	Exam + Seminar
22	2	Knowing the tissues of oral cavity	Gingiva and dent gingival junction	Lectures	Exam + Seminar
23	2	Knowing the tissues of oral cavity	Eruption of teeth	Lectures	Exam + Seminar
24	1	Knowing the tissues of oral cavity	Shedding of teeth	Lectures	Exam + Seminar
25	2	Knowing the tissues of oral cavity	Salivary gland	Lectures	Exam + Seminar
26	2	Knowing the tissues of oral cavity	Salivary proteins	Lectures	Exam + Seminar
27	2	Knowing the tissues of oral cavity	TMJ	Lectures	Exam + Seminar
28	2	Knowing the tissues of oral cavity	Histochemistry	Lectures	Exam + Seminar
29	2	Knowing the tissues of the oral cavity	Age changes of soft and hard tissues	Lectures	Exam + Seminar
30	2	Knowing the tissues of the oral cavity	Maxillary sinus	Lectures	Exam + Seminar

11. Course Evaluation Exam + Seminar

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Orban's Oral Histology and Embryology
Main references (source)	Orban's Oral Histology and Embryology
Recommended books and references (scient journals, reports…)	Orban's Oral Histology and Embryology
Electronic references, websites.	Orban's Oral Histology and Embryology

Course Description

1. Course Name:
Oral Surgery
2. Course Code:
DNT301
3. Semester/Year:
Annually/Third year
4. Description Preparation Date:
5/6/2025
5. Available Attendance Forms:
Lectures and Clinical Practice
6. Number of Credit Hours (Total) / Number of Units (Total)
90/2
7. Course administrator's name (mention all, if more than one name)
Assist. Prof. Dr, Elham Hazeim Abdulkareem Assist Prof. Dr. Hamid Hammad Enezi Lect. Dr. Anas Hamad Abed

8. Course Objectives	
Course Objectives	The objectives of the course are to prepare a student at a high level of science about oral surgery and identification of surgical instruments for his work in surgery, as well as to acquire knowledge of the types of local anaesthesia. And his methods and the problems and complications associated with them.

9. Teaching and Learning Strategies	
Strategy	1. Method of giving lectures by explaining and clarifying the use of PowerPoint. 2. Urge students to use the library as a learning method. 3. The self-learning method supports the learning environment. 4. Urge students to use the Internet as a supportive means of learning. 5. Use the principles of discussion and dialogue to increase student absorption. 6. Implementation of education through the practical part.

10. Course Structure

Week	Hours	ILOs	Unit/Module orTopic Title	Teaching Method	Assessment Method
1	2	Understanding concepts, basics and application	Diagnosis in oral surgery (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
2	2	Understanding concepts, basics and application	Extraction of teeth (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
3	2	Understanding concepts, basics and application	Contraindications of extraction (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
4	1	Understanding concepts, basics and application	General arrangement for extraction (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
5	2	Understanding concepts, basics and application	Dental forceps (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
6	2	Understanding concepts, basics and application	Elevators (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
7	2	Understanding concepts, basics and application	Techniques of forceps extraction and post operative instructions (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
8	3	Understanding concepts, basics and application	Complications of teeth extractions (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
9	3	Understanding concepts, basics and application	Basic surgical instruments (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
10	1	Understanding concepts, basics and application	Introduction to local anesthesia (local anesthesia)	Lecture delivery using the PowerPoint system	Written exam and clinical

11	2	Understanding concepts, basics and application	Pharmacology of local anesthesia (local anesthesia)	Lecture delivery using the PowerPoint system	Written exam and clinical
12	1	Understanding concepts, basics and application	Surgical anatomy in local anesthesia (local anesthesia)	Lecture delivery using the PowerPoint system	Written exam and clinical
13	1	Understanding concepts, basics and application	Instruments of local anesthesia (local anesthesia)	Lecture delivery using the PowerPoint system	Written exam and clinical
14	3	Understanding concepts, basics and application	Techniques of local anesthesia (local anesthesia)	Lecture delivery using the PowerPoint system	Written exam and clinical
15	3	Understanding concepts, basics and application	Complications of local anesthesia (local anesthesia)	Lecture delivery using the PowerPoint system	Written exam and clinical
16	2	Understanding concepts, basics and application	Diagnosis in oral surgery (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
17	2	Understanding concepts, basics and application	Extraction of teeth (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
18	2	Understanding concepts, basics and application	Contra indications of extraction (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
19	1	Understanding concepts, basics and application	General arrangement for extraction (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
20	2	Understanding concepts, basics and application	Dental forceps (exodontia)	Lecture delivery using the Power Point system	Written exam and clinical
21	2	Understanding concepts, basics and application	Elevators (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
22	2	Understanding concepts, basics and application	Techniques of forceps extraction and post-operative instructions (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical

23	3	Understanding concepts, basics and application	Complications of teeth extractions (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical
24	3	Understanding concepts, basics and application	Basic surgical instruments (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical

11. Course evaluation	
Quizzes and short exams, questions and discussions in the lecture, absences, and the final exam. Practical: class exam, activity, practical exams, clinical training exams.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1. Contemporary oral and maxillofacial surgery, 5th edition, 2008. 2. Extraction of teeth. 3. Handbook of Local Anaesthesia, 6th edition, 2011.
Main references (source)	Seminars and reports under the supervision of the subject professor
Recommended books and references (scientific journals, reports…)	1. Contemporary oral and maxillofacial surgery, 5th edition, 2008. 2. Extraction of teeth. Handbook of Local Anaesthesia 6th edition, 2011.
Electronic references, websites.	The study includes hands-on training on surgical tools and tools used for in situ anaesthesia.

وصف المقرر

Course name
Dental Ethics
Code number
DNT308
:Semester / Year
2024-2025
Description of prescription Date
6/6/2025
Attendance
Lectures
Number of Credit Hours (Total) / Number of Units (Total
hours/6 unit 120
Course administrator's name (mention all, if more than one name)
Lecturer Dr. Aws Waleed Abbas, Lecturer Shakir Mahmood
Course Objectives

Dental ethics aims to establish principles that ensure patient care is both ethical and effective. These principles help guide dental professionals in maintaining a high standard of care, building trust with patients, and navigating complex situations with integrity and professionalism. Here are some core aims of dental ethics: □ Patient Autonomy: Respecting the patient's right to make informed decisions about their care. Dentists must provide clear, honest information and respect patients' choices even if they differ from the dentist's recommendations. □ Beneficence: This principle centers on doing good for the patient by providing the highest quality care. Dentists must act in the best interest of patients by offering evidence-based treatments and minimizing harm. □ Non-maleficence: Often summarized as "do no harm," this principle emphasizes preventing harm to patients. Dentists are ethically required to ensure that treatments are safe, to refrain from procedures beyond their competence, and to prioritize patient safety. □ Justice: This is the principle of fairness and equality in care. It involves providing equitable care to all patients, regardless of their background, financial status, or other personal factors, and avoiding discrimination.	Objectives

□

Veracity: Dentists should be truthful with patients, providing accurate information about diagnoses, treatment options, risks, and outcomes. This transparency helps build trust and ensures informed consent.

□

Confidentiality: Protecting patient privacy is a cornerstone of dental ethics. Dentists must safeguard patient information, only sharing it with authorised personnel or when required by law.

□

Professionalism: Dentists are expected to maintain ethical standards in all aspects of their practice, which includes ongoing professional development, self-regulation, and acting with integrity.

□

Social Responsibility: Dentists have an ethical duty to contribute positively to public health. This includes participating in community health initiatives, promoting dental health education, and advocating for access to quality care..

1. استراتيجيات التعليم والتعلم

The strategy for teaching dental ethics focuses on developing critical thinking skills and the ability to make well-considered ethical decisions among dental students. This is achieved by providing an educational environment that combines theoretical knowledge with practical application, training students to confront the ethical challenges they may encounter in their professional live

2. بنية المقرر

الاسبوع	الساعات	مخرجات التعلم المطلوبة	اسم الوحدة او الموضوع	طريقة التعلم	طريقة التقييم
1	1	Dental public health	Ethics	lecture	eaxms
2	1	Dental Public Care	Ethics	lecture	eaxms
3	1	Epidemiology	Ethics	lecture	eaxms
4	1	Epideniological studies	Ethics	lecture	eaxms
5	1	Expremintal studies	Ethics	lecture	eaxms
6	1	Epidemiology of dental caries	Ethics	lecture	eaxms

eaxms	lecture	Ethics	Epidemiology of periodontal disease	1	7
eaxms	lecture	Ethics	Epidemiology of oral cancer	1	8
eaxms	lecture	Ethics	Dental indices	1	9
eaxms	lecture	Ethics	Indices used for assessment of dental caries	1	10
eaxms	lecture	Ethics	Indices used for assessment of periodontal disease	1	11
eaxms	lecture	Ethics	Dental fluorosis	1	12
eaxms	lecture	Ethics	Biostatistics	1	13

eaxms	lecture	Ethics	Data presentation	1	14
			Measures of central tendency and dispersion	1	15
			Fluoridation asa public health measure	1	16
			Fluoridation Mechanism and Effects		
			Occupational hazards in Dentistry	1	17
			Environment and health	1	18
			Effect of air pollution on health		
			School dental health program	1	19
			Treatmnet need and demand	1	20
			Manpower		
			Ethics in Dentistry	1	21
			Oral health care for special population	1	22
			Forensic Dentistry	1	23
			Dental auxiliary persons	1	24
			Primary health care		

				1	25
			Infection control		
				1	26
			Dental health education		
				1	27
				1	28
				1	29
				1	30

3. تقييم المقرر
Grading Distribution out of 100 Based on Assigned Tasks (e.g., daily preparation, daily quizzes, oral/written exams, monthly exams, reports, etc.) First Term: (Daily quizzes + Monthly exam) = 20 marks Second Term: (Daily quizzes + Monthly exam) = 20 marks Final Exam (Theoretical) = 30 marks
4. مصادر التعلم والتدريس

	Books
1 .Dental Ethics at Chairside: Professional Principles and Practical Applications	Refrenses
Dental Ethics at Chairside: Professional Principles and Practical Applications	Books
Dental Ethics at Chairside: Professional Principles and Practical Applications	Books

	Course Name: **Pharmacology**
	Course Code: Pharmacology/ DENT304
	Semester / Year:2025 -2025

Description Preparation Date: 5/6/2025

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

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

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

College of Pharmacology

Course Objectives

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

Teaching and Learning Strategies

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

Course Structure

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

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

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

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

239. Course Evaluation

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

15% mid-term exam

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

20% Final practical exam

40% Final Theoretical Exam

240.Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	1- 2- 3-
Recommended books and references (scientific journals, reports…)	Pharmacology and Therapeutics for Dentistry (7th edition, 2017)
Electronic References, Websites	

Course Description

1. Course Name:
Prosthetic
2. Course Code:
DNT306
3. Semester / Year:
2024-2025
4. Description Preparation Date:
10/4/2025
5. Available Attendance Forms:
Theory and practical laboratories
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Theoretical lectures and 60 practical laboratories
7. Course administrator's name (mention all, if more than one name)
1-Assist.Prof.Dr. Abbas Ibrahim Hussein/ Email: den.ani.abbas@uoanbar.edu.iq Lecturer Dr. Osama AbdulRasool Hammodi/ Email: Oaalghriari@uoanbar.edu.iq

8. Course Objectives	
Course Objectives	Enabling students to obtain knowledge and understanding of the work of partial dentures. The student learns the basics of this work. Enabling students to obtain knowledge and how to deal with the patient without causing any harm to the patient. Enabling students to obtain knowledge and understanding of each subject and what is the best method of work through comprehensive knowledge of anatomical signs that help in choosing the appropriate type of work for the patient.
9. Teaching and Learning Strategies	
Strategy	Theoretical lectures inside the classroom. Student groups Laboratory activities E-learning on campus (use of the Internet)

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	3	Partial dentures Removable partial	Introduction to Removable	Lectures + laboratories	Daily, semester, and final exams =

		denture (RPD) • Objectives for RPD construction • Causes of teeth loss • Indications of removable partial dentures • Fixed partial denture • Indications for fixed partial denture • Dental implant therapy • Contraindications for dental implant therapy • Terminology and refinishing	Partial Dentures		weekly evaluation in the laboratory
2	3	Need for classification. Requirements of an acceptable method of classification • Removable partial dentures may be classified according to the type of support • Removable partial dentures may be classified according to the type of material • Removable	Classification of Partially Edentulous Arches	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		partial dentures may be classified according to the type of treatment • Classification based on arch configuration • Kennedy – Applegate – Fiset classification system. • Applegate's rules governing the application of the Kennedy classification method			
3	3	The ideal requirements for successful removable partial denture • Purposes (Objective) of Surveying the Diagnostic Cast • Advantages of single path of placement (insertion) • Guiding planes • Dentalsurvey or • Types of dentalsurveyo rs • Parts of dental surveyor (Ney type surveyor	Surveying	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
4	3	Principles of surveying • Types of	Surveying (continue)	Lectures + laboratories	Daily, semester, and final exams =

		undercuts established by surveying • Factors that determine and affect the path of placement (insertion) and removal of the RPD Rules of surveying			weekly evaluation in the laboratory
5	3	Main components of RPD • Major connectors • Requirements of major connectors • Guidelines for design and location of major connectors • Characteristics of major connectors	Component Parts of a Removable Partial Denture	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
6	3	Special Structural Requirements for Maxillary Major Connectors • Types of Maxillary Major Connector • Single palatal bar • Single palatalstrap • Anterior-posterior palatal bars • Combination anterior and posterior	Maxillary Major Connectors	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		palatal strap–type connector • Palatal plate-type connector • U-shaped palatal connector			
7	3	Special structural requirements • Types of mandibular major connectors Lingual bar Methods that may be used to determine the relative height of the floor of the mouth Lingual plate (linguoplate) The indications for the use of linguoplate Double lingual bar (lingual bar with cingulum bar) Indications for use of double lingual bar Labial bar Indications for use of labial bar Characteristics and location	Mandibular Major Connectors	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
8	3	Definition • Functions • Form &	Minor Connectors	Lectures + laboratories	Daily, semester, and final exams =

		location • Basic types of minor connectors • Tissue stops • Finishing lines • Reaction of Tissue to Metallic Coverage			weekly evaluation in the laboratory
9	3	The purposes of the rest in general • Occlusal Rest • Extended Occlusal Rest • Interproximal Occlusal Rest • Internal Occlusal Rests • Occlusal Rest Seat Preparation • Occlusal Rests on Amalgam Restorations • Occlusal Rest on Crowns • Lingual Rests (Cingulum Rest) • Incisal Rests and Rest Seats • Implants as a Rest	Rests and Rest Seats	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
10	3	Direct retainers • Indirect retainers • The extra coronal retainer (Clasp type) • Component parts, Function, and	Retention and Removable Partial Denture Retainers	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		position of clasp assembly parts • Factors affecting the magnitude of retention • The basic principles of clasp design			
11	3	Clasps designed without movement accommodation. • Circumferential (Circle or Akers) clasp • Ring-type clasp • Embrasure (double Akers) clasp • Back action clasp • Multiple clasps • Half-and-half Clasp • Reverse-action clasp (Hairpin) • Disadvantages of circumferential clasps in summary • Clasps designed to accommodate distal extension functional movement • RPI clasp • Bar-type clasp assembly •	Retainers (Types of clasp assemblies	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		RPA clasp; Akers clasp • Infra-bulge clasp • Combination clasp			
12	3	Internal attachments • Precision Attachments Some indications for precision attachments Some of the contraindications for precision attachments The main types of precision attachments Selection of an Attachment for a Removable Partial Denture	Intracoronal Direct Retainers (Internal Attachments, Precision Attachments	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
13	3	Stress breakers Types ofstress breakers	Stress-Breakers (Stress Equalizers	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
14	3	The main factors influencing the effectiveness of an indirect retainer • The auxiliary functions of indirect retainers • Forms of	Indirect Retainers	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		Indirect Retainers			
15	3	Auxiliary occlusal rest • Lingualrest • Incisal rest • Canine extensions from occlusal rests • Cingulum bars (continuous bars) and linguo-plates • Modification areas • Rugae support	Indirect Retainers (continue	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
16	3	Blockout and relief • Cast preparation • Types of blockout of master cast Parallel blockout Shaped blockout Arbitrary blockout • Relieving the master cast • Purpose of relief • Sites • Tissue Stops	Laboratory procedures in RPD construction: Blockout and Relief	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
17	3	Duplicating a stone cast • Duplicating material and flask • Impression • Refractory cast	Laboratory procedures in RPD construction: Duplication and Refractory Cast Construction	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
18	3	Waxing the framework • Spruing •	Laboratory procedures in RPD	Lectures + laboratories	Daily, semester, and final exams =

		General rules for spruing • Investing the sprued pattern • Purpose of investment • Burnout	construction: Wax Pattern		weekly evaluation in the laboratory
19	3	**Casting • Casting recovery • Finishing the framework • Sprue removal**	**Waxing the framework • Spruing • General rules for spruing • Investing the sprued pattern • Purpose of investment • Burnout**	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
20	3	**The primary function of denture base • Types of denture base according to support • Types of the denture base according to materials • Advantages of metal denture base • Disadvantages of metal denture base • Design consideration of denture base • Periodontal consideration of denture base design • Types of artificial teeth**	**Denture Base in RPD**	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
21	3	**Record bases • Types of record bases according to materials constructed from it • Occlusion rims • Occlusion rims for static jaw relation records • Occlusion rims for recording functional or**	**Record Bases, Occlusion Rims, Mounting and Arrangement of Teeth**	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		dynamic jaw relationship record • Mounting casts on the articulator Arrangement of artificial teeth to the opposing cast • Principles that should be taken during arrangement of artificial teeth • Laboratory procedure of arrangement teeth (Example)			
22	3	**Biomechanical considerations • Possible movements of partial dentures • Tooth-tissue–supported prosthesis**	**Biomechanics of Removable Partial Dentures**	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
23	3	**Tooth-supported partial denture • Occlusal Rest Seat Preparation and Denture Movement • Impact of Implants on Movements of Partial Dentures**	**Biomechanics of Removable Partial Dentures (continue**	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
24	3	**Difference in Prosthesis Support and Influence on Design • Differentiation Between Two Main Types of Removable Partial Dentures**	**Principles of Removable Partial Denture Design**	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
25	3	Components of Partial Denture Design • Implant Considerations in Design	**Principles of Removable Partial Denture Design (continue**	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
26	3	**1st Phase: Education of patient • 2nd Phase: Diagnosis,**	**Clinical Phases of Removable Partial Denture Construction**	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory

		Treatment Planning, Design, Treatment Sequencing, and Mouth Preparation • 3rd Phase: Support for Distal Extension Denture Bases • 4th Phase: Establishment and Verification of Occlusal Relations and Tooth Arrangements • 5th Phase: Initial Placement Procedures • 6th phase: Periodic Recall			
27	3	**Acrylic removable partial dentures • Appearance • Maintenance of space • Reestablishment of occlusal relationships • Conditioning of teeth and residual ridges • Interim restoration during treatment • Conditioning the patient for wearing a prosthesis • Clinical procedure for placement**	**Acrylic Removable Partial Dentures**	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
28	3	**Flexible • removable partial dentures • Type of material used for the flexible denture • Support • Retention**	**Flexible Removable Partial Dentures**	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
29	3	**Broken clasp arms • Several**	**Repairs and Additions to**	Lectures + laboratories	Daily, semester, and final exams =

		reasons for breakage of clasp arms • Fractured occlusal rests • Distortion or breakage of other components – major and minor connectors • Addition of a new artificial tooth to a RPD • Repair by soldering	**Removable Partial Dentures**		weekly evaluation in the laboratory
30	3	**Components of CAD/CAM system • Types of Digital Scanner • Digital RPD Framework Design (step by step) • Digital Fabrication Process 1 Total**	**Digitally Designed & Fabrication Process of RPD Framework Using CAD/CAM System**	Lectures + laboratories	Daily, semester, and final exams = weekly evaluation in the laboratory
31					

11. Course Evaluation

1	The first theoretical exam	12
2	The first practical exam	8
3	The second theoretical exam	12
4	The second practical exam	8
5	Final practical and theoretical exam	60

12. Learning and Teaching Resources

Required textbooks (curricular books, if ar	Book of partial denture.
Main references (source)	Removable Partial Dentures
Recommended books and references (scientific journals, reports…)	Monthly scientific journals, in addition to reports that work periodically to improve the properties c materials.

Electronic references, websites.	Using the Internet for the purpose of learning everything new in the field of dental materials.

Course Description

1. Course Name:
General Pathology
2. Course Code:
DNT303
3. Semester / Year:
Third Stage
4. Description Preparation Date:
5/6/2025
5. Available Attendance Forms:
Weekly
6. Number of Credit Hours (Total) / Number of Units (Total)
60 Hours theory/ 60 Hours practical
7. Course administrator's name (mention all, if more than one name)
Name: Assis. Prof. Dr. Afrah Adnan Aldelaimi Email: den.afrah.aldelaimi@uoanbar.edu.iq
8. Course Objectives

Course Objectives	Qualifying dentists are capable of identifying the important causes of various general diseases. Studying the diagnosis of various disease processes. Studying methods of using different dyes to identify these diseases and their causes.
9. Teaching and Learning Strategies	
Strategy	Knowledge and understanding. The ability to distinguish betwe different diseases. How to use dyes. Learning to cut tissue

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Knowing the diagnosis and pathogenesis of the diseases	Introduction to pathology, Clinical pathology, Molecular pathology, Cell damage, reversible cell injury	Lectures	Exam+Seminar
2	4	Knowing the diagnosis and pathogenesis of the diseases	Irreversible cell injury: Deposits and pigmentation. External and internal pigmentation	Lectures	Exam + Seminar
3	4	Knowing the diagnosis and	Inflammation: Acute inflammation, Chronic	Lectures	Exam + Seminar

		pathogenesis of the diseases	pathology, Chemical mediators		
4	4	Knowing the diagnosis and pathogenesis of the diseases	Healing and repair: Healing of skin wound, Healing of bone	Lectures	Exam + Seminar
5	4	Knowing the diagnosis and pathogenesis of the diseases	Hemodynamic Disorders, Thromboembolic Disease, and Shock	Lectures	Exam + Seminar
6	4	Knowing the diagnosis and pathogenesis of the diseases	Genetic	Lectures	Exam + Seminar
7	4	Knowing the diagnosis and pathogenesis of the diseases	Diseases of the Immune System: Hypersensitivity, Autoimmune diseases Transplantation	Lectures	Exam + Seminar
8	6	Knowing the diagnosis and pathogenesis of the diseases	Neoplasia bengin and malignant tumors molecular basis of tumors	Lectures	Exam + Seminar
9	2	Knowing diagnosis and pathogenesis of the diseases	Infections Bacterial and viral infection	Lectures	Exam + Seminar
10	2	Knowing diagnosis and pathogenesis of the diseases	Environmental and Nutritional Diseases	Lectures	Exam + Seminar
11	2	Knowing diagnosis and pathogenesis of the diseases	Blood Vessels	Lectures	Exam + Seminar
12	2	Knowing diagnosis and pathogenesis of the diseases	The Heart diseases	Lectures	Exam + Seminar
13	2	Knowing diagnosis and pathogenesis of the diseases	Red Blood Cell and Bleeding Disorders	Lectures	Exam + Seminar
14	2	Knowing diagnosis and pathogenesis of the diseases	Diseases of White Blood Cells	Lectures	Exam + Seminar
15	4	Knowing diagnosis and pathogenesis of the diseases	Diseases of G.I.T	Lectures	Exam + Seminar
16	2	Knowing diagnosis and pathogenesis of the diseases	Diseases of liver, pancreas and gall bladder	Lectures	Exam + Seminar
17	2	Knowing diagnosis and pathogenesis of the diseases	Diseases of endocrine systems	Lectures	Exam + Seminar

18	2	Knowing diagnosis and pathogenesis of the diseases	Diseases of respiratory system	Lectures	Exam + Seminar
19	2	Knowing diagnosis and pathogenesis of the diseases	Bone diseases	Lectures	Exam + Seminar
20	2	Knowing diagnosis and pathogenesis of the diseases	Kidney Diseases	Lectures	Exam + Seminar
21	2	Knowing diagnosis and pathogenesis of the diseases	Urinary system	Lectures	Exam + Seminar

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Robin`s Basic Pathology
Main references (source)	Harsh General Pathology
Recommended books and references (scientific journals, reports…)	Robin`s Basic Pathology
Electronic references, websites.	Harsh General Pathology

Course Description

1. Course Name:
Community Dentistry
2. Course Code:
DNT308
3. Semester / Year:
2024–2025
4. Description Preparation Date:
21/5/2025
5. Available Attendance Forms:
Attendance and Laboratories
6. Number of Credit Hours (Total) / Number of Units (Total)
30h: Theory -60h clinical 4 Units
7. Course administrator's name (mention all, if more than one name)
Wesam Adnan Sami wisamsami08@uoanbar.edu.iq

8. Course Objectives	
Course Objectives	- Provide critical knowledge of dental public health - Develop students understanding of the major oral health problems of a community - Enable students to understand health services, public health program dental occupation haza and most important scientific research methods

9. Teaching and Learning Strategies	
Strategy	**Active and Cooperative Learning**: Encouraging students to actively participate in educational processes, such as group discussions and collaborative projects. Case studies and simulations can be used to enhance students' understanding of the applications of community dentistry in real-life contexts. **Problem-Based Learning**: Presenting real-life and specific problems related to the field of community dentistry, forcing students to engage in critical thinking and search for innovative solutions using acquired knowledge. **Innovative and Stimulating Teaching**: Using innovative teaching materials such as educational videos, interactive presentations, and smartphone applications to make learning more exciting and effective.

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	Dental public health	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
2	1	Dental Public Care	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
3	1	Epidemiology	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
4	1	Epidemiological studies	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
5	1	Experimental studies	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
6	1	Epidemiology of dental caries	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
7	1	Epidemiology of periodontal disease	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
8	1	Epidemiology of oral cancer	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
9	1	Dental indices	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
10	1	Indices used for assessment of dental caries	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
11	1	Indices used for assessment of periodontal disease	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
12	1	Dental fluorosis	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**

13	1	Biostatistics	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
14	1	Data presentation	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
15	1	Measures of central tendency and dispersion	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
16	1	Fluoridation as a public health measure	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
17	1	Fluoridation Mechanism and Effects	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
18	1	Occupational hazards in Dentistry	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
19	1	Environment and health	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
20	1	Effect of air pollution on health	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
21	1	School dental health program	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
22	1	Treatment need and demand	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
23	1	Manpower	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
24	1	Ethics in Dentistry	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
25	1	Oral health care for special population	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
26	1	Forensic Dentistry	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
27	1	Dental auxiliary persons	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
28	1	Primary health care	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**

29	1	infection control	Community Dentistry	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
30	**1**	**Dental health education**	**Community Dentistry**	**Lectures + clinic**	**Daily, semester, and final exams = weekly evaluation in the clinic**

Practical requirements

Lab. number	Lab. Title	Hours
1	Community Dentistry	2
2	Patients setting and examination	2
3	Clinical examination	2
4	Basic tooth numbering	2
5	Clinical examination	2
6	index	2
7	Dental caries	2
8	Theories of caries formation	2
9	Dental caries index	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	2
16	fluoride	2
17	Periodontal diseases	2
18	Index for plaque assessment	2
19	Clinical examination	2
20	Clinical examination	2
21	Index for calculus assessment	2
22	Clinical examination	2
23	Clinical examination	2

24	Gingival disease index	2
25	Clinical examination	2
26	Clinical examination	2
27	Periodontal prevention	2
28	Tooth brushing/ mechanical plaque control	2
29	Clinical …… assistant	2
30	Clinical …. assistant	2

11. Course Evaluation

1	The first term exam (theory and practical)	20
2	The second term exam (theory and practical)	20
3	The final exam (theory and practical)	60

12. Learning and Teaching Resources

Main references (source)	Daly B, Watt R, Btchelor P, Treasure E. Essential Dental Public Health. University Press Bowling A., Research Methods in Health
Recommended books and references (scientific journa reports…)	Monthly scientific journals, in addition to reports that work periodically to improve the properties of materials The strategy of preventive medicine Community oral health
Electronic references, websites.	Using the Internet for the purpose of learning everything new in the field of dental materials. Pub med , Google scholar, Web of Science

Course Description

1. Course Name:	
Conservative dentistry	
2. Course Code:	
DNT305	
3. Semester / Year:	
2025-2024	
4. Description Preparation Date:	
2025/6/5	
5. Available Attendance Forms:	
Attendance lecture weekly lectures and preclinical laboratory practice	
6. Number of Credit Hours (Total) / Number of Units (Total)	
180 hours total 60h- Theory, 120h preclinical laboratory practice 8 Units	
7. Course administrator's name (mention all, if more than one name)	
Assist. lect. Yahya Adel Abd den.yahya.dental @uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	Enabling students to obtain knowledge and understanding of the work fillings and fixed prosthodontics. The student learns the basics of t work. Enabling students to obtain knowledge and how to deal with t patient without causing any harm to the patient. Enabling students obtain knowledge and understanding of each subject and what is t best method of work through comprehensive knowledge that helps pla amalgam and esthetic composite filling and crown, and fixed bridg without fracture or dislodgement outside the mouth
9. Teaching and Learning Strategies	
Strategy	Theoretical lectures inside the classroom. Student groups Preclinical phantom lab activities learning on campus (use of the Internet)

1. Course structure

week	hours	Theoretical contents	Module or Topic	Teaching Method	Assessment Method
1	1	Definitions: -Introduction to Fixed Prosthodontics. -Types of crowns. -Purposes of crown construction. -Steps in crown construction. -Components of bridge.	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Definition of operative dentistry : a-Aim of operative dentistry b- General terminology			
2	1	Definitions (continued):	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Principles of cavity preparations: a- Steps of cavity preparation b- Types of caries			
3	1	Definitions (continued):	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Hand and rotary instruments and general instrumentation of cavity preparation			
4	1	Biomechanical principles of tooth preparation:*Preservation of sound tooth *Retention and *resistance form. *Marginal integrity.	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth

		*Structural durability.			
	1	Sterilization of operative instruments			
5	1	Biomechanical principles of tooth preparation (continued):	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Amalgam cavity preparations for class 1 (buccal pit, palatal pit)			
6	1	Biomechanical principles of tooth preparation (continued :)	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Amalgam cavity preparations for class 1 (lower 2nd premolar, lower 1st premolar)			
7	1	Full metal crown: Indications, contra-indications, advantages, disadvantages, steps of preparation.	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Amalgam cavity preparations for class 1 (upper 1st molar with palatal extension)			
8	1	Full metal crown (continued):	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Amalgam cavity preparations for class 1 (lower 1st molar with palatal extension)			
9	1	Porcelain fused to metal crown:	Conservative dentistry		Weekly , semester, and

		Indications, contra-indications, advantages, disadvantages, steps of preparation.	(operative and fixed prosthodontics)	Theory lecture using power point	final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Amalgam cavity preparations for class I1 (part 1)			
10	1	Porcelain fused to metal crown (continued):	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Amalgam cavity preparations for class I1 (part 2)			
11	1	Complete ceramic crown (Porcelain Jacket Crown: Indications,contra-indications,advantages, disadvantages, steps of preparation.	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Amalgam cavity preparations for class I1 MOD			
12	1	Complete ceramic crown (Porcelain Jacket Crown(continued):	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Amalgam cavity preparations for class I1I			
13	1	Partial veneer crown (Three-quarter crown): Indications,contra-indications,advantages, disadvantages, steps of preparation.	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Amalgam cavity preparations for class V			

14	1	Partial veneer crown (three-quarter crown):	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Cavity liners and cement bases			
15	1	Post crown: Indications, contra-indications, factors to be considered in the assessment of a tooth for post	Conservative dentistry (operative and fixed prosthodontics)	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	cement bases (Zinc phosphate cement, Zinc oxide – eugenol cements)			
16	1	Post crown (continued):	Conservative dentistry (operative and fixed prosthodontics	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	cement bases (Zinc polycarboxylate cement, Glass ionomer cement, Resin cement)			
17	1	Impression for crown and bridge work: -Objectives of taking impression. -Requirements of an acceptable impression. -Impression materials. -Impression techniques.	Conservative dentistry (operative and fixed prosthodontics	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Cavity liner (cavity varnish, Bonding, Calcium hydroxide			
18	1	Impression for crown and bridge work (continued):	Conservative dentistry	Theory lecture using power point	Weekly , semester, and final exams = weekly

	1	Dental amalgam alloys (material)	(operative and fixed prosthodontics		evaluation in the lab preclinical work on manikin teeth
19	1	Impression for crown and bridge work (continued):	Conservative dentistry (operative and fixed prosthodontics		Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Dental amalgam placement (part 1)			
20	1	Provisional restoration: Definition, objectives, types(prefabricated, custom-made, and laboratory-made)	Conservative dentistry (operative and fixed prosthodontics	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Dental amalgam placement (part 2)			
21	1	Provisional restoration (continued):	Conservative dentistry (operative and fixed prosthodontics	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Complex amalgam restoration			
22	1	Working cast and dies: Advantages of working cast, definition of die, types of die material, techniques of producing die .	Conservative dentistry (operative and fixed prosthodontics	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Pin retained amalgam restoration			
23	1	Working cast and dies (continued):	Conservative dentistry (operative and fixed prosthodontics	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the
	1	Failures in amalgam restorations			

					lab preclinical work on manikin teeth
24	1	Waxing.	Conservative dentistry (operative and fixed prosthodontics	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Tooth colored restorations composite			
25	1	Investing.	Conservative dentistry (operative and fixed prosthodontics	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Composite resin (material)			
26	1	Casting.	Conservative dentistry (operative and fixed prosthodontics	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Principles of cavity preparation for composite restoration (CL III, IV and V)			
27	1	Finishing of the casting.	Conservative dentistry (operative and fixed prosthodontics	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Composite resin placement (part 1)			
28	1	Clinical try-in	Conservative dentistry (operative and fixed prosthodontics	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical
	1	Composite resin placement (part 2)			

					work on manikin teeth
29	1	Cementation: Types of cements – used for cementation of .crown restoration –Techniques of – cementation	Conservative dentistry (operative and fixed prosthodontics	Theory lecture using power point	Weekly , semester, and final exams = weekly evaluation in the lab preclinical work on manikin teeth
	1	Failures in anterior restorations			
30	1	Cementation (continued):	Conservative dentistry (operative and fixed prosthodontics	Theory lecture using power point	
	1	Fluoride releasing materials			

10. Course evaluation

The first semester theoretical exam	12
The first semester practical exam	8
The second semester theoretical exam	12
The second semester practical exam	8
Final practical and theoretical exam theory 40 practical 20	60

. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Fundamental Consideration in Fixed Prosthodontics Restorative Dentistry, Fundamental in Operative Dentistry.
Main references (source)	Contemporary fixed prosthodontics, Art & Science of operative dentistry,
Recommended books and references (scientific journals, reports…)	Monthly scientific journals, in addition to reports that work periodically to improve the properties of materials
Electronic references, websites.	Using the Internet for the purpose of learning everything new in the field of dental materials.

Course Description

1. Course Name:	
Microbiology	
2. Course Code:	
DNT302	
3. Semester / Year:	
2025-2024	
4. Description Preparation Date:	
2025/6/6	
5. Available Attendance Forms:	
Attendance and Laborartory	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hrs/3hrs	
7. Course administrator's name (mention all, if more than one name)	
Assist. Prof. Dr. Waleed Khalid Mohammed, Lect. Dr. Mohammed Radhi, Assistant. Prof. Karama Tahrir Ahmed	
8. Course Objectives	
Course Objectives	Studying immunity, the body's defence mechanisms, and immune responses to diseases. Exploring modern and advanced methods for diagnosing microbial diseases. Addressing sterilisation techniques and their application in dentistry
9. Teaching and Learning Strategies	
Strategy	Lectures using the PowerPoint program Presentation of educational videos. Guiding students to some websites to benefit from them Follow up on students' way of thinking, expression, and speed response through discussions.

10. Course Structure					
Week	**Hours**	**ILOs**	**Unit/Module orTopic Title**	**Teaching Method**	Assessment Method
1	2	Microbiology	Antibiotic and chemotherapy:- -Antibiotic, sources -Mode of action of antibiotic -Anti-microbial sensitivity tests -Bacterial resistance -Prophylactic use	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
2	2	Microbiology	Ecology of oral flora -Indigenous flora -Supplemental flora -Transient flora -Sources of oral bacteria -Factors modulating growth of bacteria in the oral cavity	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
3	2	Microbiology	Host-parasite relationship & Nosocomial infection -Symbiosis, Commensalism, Amphibiosis, Antagonistic -Sources of infection in hospital and -nosocomial infections -Post-operative wound infection, burns infections	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams

4	2	Microbiology	Microbiology of periodontal disease and Endodontics -Subgingival microbial complex -Specific, non-specific and Ecological plaque hypothesis - Porphyromonas, prevotella, Aggregatibacter virulence factors of periodontal pathogens -Endodontic microbiota and Routes of root canal infection -Ecology of endodontic microbiology	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
5	2	Microbiology	G- negative diplococcic , Vellionella and Moraxella , Neisseria gonorrhea, N. meningitidis.	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
6	2	Microbiology	Lactobacilli, Actinomyces and *Corynebacterium diphtheriae* & Diphtheroids	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
7	2	Microbiology	Bacillus: B. subtilis, B. anthracis and B.ceres	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
8	2	Microbiology	Mycobacterium -Tuberculosis & Leprae	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
9	2	Microbiology	Staphylococci -Virulence factors - and pathogenesis -Epidemiology,	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams

			treatment and prevention		
10	2	Microbiology	Clostridium : C. perfringenis , C. tetani, C. botulinum, and C. difficile	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
11	2	Microbiology	Enterobacteriaceae -E.coli, Salmonella, Shigella, Enterobacter, Klebsiella, proteus, Yersinia, Vibrio	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
12	2	Microbiology	- Introduction to general immunology and oral immunology - Non-specific and specific immunity - Antigen - Immunoglobulin - Humeral and Cellular Immunity	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
13	2	Microbiology	- Cells and organs of the immune system - Complement system - Human leukocyte antigen - Role of complement and HLA in oral disease	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
14	2	Microbiology	- Oral and mucosal immunity - Autoimmunity and immune tolerance	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
15	2	Microbiology	-Hypersensitivity reactions	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams

16	2	Microbiology	- Antimicrobial and immunological defences of saliva and gingival crevicular fluid components	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
17	2	Microbiology	Virology -general structure of viruses -classification	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
18	2	Microbiology	viral replication -Isolation & diagnosis -Oral virology	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
19	2	Microbiology	- Oral mycology and Oral parasitology - epidemiology, transmission	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
20	2	Microbiology	-E histolotica, Introduction E.gingivalis, T.tenax -Fungal cells -classification -Candida	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
21	2	Microbiology	Clostridium : C. perfringenis , C. tetani, C. botulinum, and C. difficile	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
22	2	Microbiology	-Hypersensitivity reactions	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
23	2	Microbiology	- Antimicrobial and immunological defences of saliva and gingival crevicular fluid components	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
24	2	Microbiology	Virology -general structure of viruses -classification	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams

25	2	Microbiology	viral replication -Isolation & diagnosis -Oral virology	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
26	2	Microbiology	- Oral mycology and Oral parasitology - epidemiology, transmission	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
27	2	Microbiology	-E histolotica, Introduction E.gingivalis, T.tenax -Fungal cells -classification -Candida	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
28	2	Microbiology	Clostridium : C. perfringenis , C. tetani, C. botulinum, and C. difficile	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
29	2	Microbiology	-Hypersensitivity reactions	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams
30	2	Microbiology	- Antimicrobial and immunological defences of saliva and gingival crevicular fluid components	Theoretical lecture using the program power point	Short, quarterly, half-year and final exams

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc. 15% mid exam
25% Annual pursuit (includes daily and monthly exams and practical requirements)
20% Final practical exam, 40% Final Theoretical Exam

12. Learning and Teaching Resources

Required textbooks (curricular book, if any)	Oral Microbiology and Immunology
Main references (source)	Oral Microbiology and Immunology
Recommended books and references (scientific journals, reports…)	Review_of_Medical_Microbiology_and_Immunology_by_Warren_E_Levinson
Electronic references, websites.	Internet resourses

Course Description

1. Course Name:
Oral Surgery
2. Course Code:
DNT401
3. Semester/Year:
Annually/Fourth year
4. Description Preparation Date:
5/6/2025
5. Available Attendance Forms:
Lectures and Clinical Practice
6. Number of Credit Hours (Total) / Number of Units (Total)
150/6
7. Course administrator's name (mention all, if more than one name)
Assist. Prof. Dr, Elham Hazeim Abdulkareem Assist Prof. Dr. Hamid Hammad Lect. Dr. Anas Hammad Abd
8. Course Objectives

Course Objectives	1. A student's ability to learn about surgery in general. 2. The student's knowledge of the diagnosis of symptoms and diseases in the mouth, face and jaws. 4. To inform the student of how to deal with persons with health disorders. 5. Study of general diseases related to dentistry and, in particular, oral surgery. 6. The student's knowledge of the treatment of oral and facial infections. 7. The student knows about oral surgery, complications and methods of avoiding and treating it. 8. The student knows how to deal with patients with general illnesses affecting the work of the dentist. 9. The ability of the student to confirm this theoretical information in his or her clinical applications.
9. Teaching and Learning Strategies	
Strategy	1. Method of giving lectures by explaining and clarifying the use of Power Point. 2. Urge students to use the library as a learning method. 3. The self-learning method supports the learning environment. 4. Urge students to use the Internet as a supportive means of learning. 5. Use the principles of discussion and dialogue to increase student absorption. 6. Implementation of education through the practical part.

10. Course Structure

Week	Hours	ILOs	Unit/Module orTopic Title	Teaching Method	Assessment Method
1	6	Understanding concepts, basics and application	Patient Preparation for operation in oral surgery.	Lecture delivery using the Power Point system	Written exam and clinical
2	6	Understanding concepts, basics and application	Dental pain	Lecture delivery using the PowerPoint system	Written exam and clinical
3	6	Understanding concepts, basics and application	Dental management of patients with Cardiovascular diseases	Lecture delivery using the PowerPoint system	Written exam and clinical
4	6	Understanding concepts, basics and application	Dental management of patients with	Lecture delivery using the PowerPoint system	Written exam and clinical
5	6	Understanding concepts, basics and application	Bleeding disorders	Lecture delivery using the PowerPoint system	Written exam and clinical
6	6	Understanding concepts, basics and application	Dental management of patients with	Lecture delivery using the PowerPoint system	Written exam and clinical
7	6	Understanding concepts, basics and application	Blood dyscrasias	Lecture delivery using the PowerPoint system	Written exam and clinical
8	6	Understanding concepts, basics and application	Dental management of patients with	Lecture delivery using the PowerPoint system	Written exam and clinical
9	6	Understanding concepts, basics and application	Thyroid disease	Lecture delivery using the PowerPoint system	Written exam and clinical
10	6	Understanding concepts, basics and application	Dental management of patients with C.N.S. disease	Lecture delivery using the PowerPoint system	Written exam and clinical
11	6	Understanding concepts, basics and application	Dental management of patients with Pregnancy	Lecture delivery using the PowerPoint system	Written exam and clinical

12	6	Understanding concepts, basics and application	Dental management of patients with AIDS	Lecture delivery using the PowerPoint system	Written exam and clinical
13	6	Understanding concepts, basics and application	Management of patient receiving chemotherapy and radiotherapy	Lecture delivery using the PowerPoint system	Written exam and clinical
14	6	Understanding concepts, basics and application	Suturing &Intra-Oral flaps and incisions.	Lecture delivery using the PowerPoint system	Written exam and clinical
15	6	Understanding concepts, basics and application	Pyogenic infections of the soft tissues	Lecture delivery using the PowerPoint system	Written exam and clinical
16	6	Understanding concepts, basics and application	Surgical drainages of Abscess	Lecture delivery using the PowerPoint system	Written exam and clinical
17	6	Understanding concepts, basics and application	Principles of management of Un-erupted and impacted teeth	Lecture delivery using the PowerPoint system	Written exam and clinical
18	6	Understanding concepts, basics and application	Osteomyelitis, Actinomycosis. and Dry Socket	Lecture delivery using the PowerPoint system	Written exam and clinical
19	6	Understanding concepts, basics and application	Complications of minor surgery	Lecture delivery using the PowerPoint system	Written exam and clinical
20	6	Understanding concepts, basics and application	Dental management of patients with C.N.S. disease	Lecture delivery using the Power Point system	Written exam and clinical
21	6	Understanding concepts, basics and application	Dental management of patients with Pregnancy	Lecture delivery using the PowerPoint system	Written exam and clinical
22	6	Understanding concepts, basics and application	Dental management of patients with AIDS	Lecture delivery using the PowerPoint system	Written exam and clinical
23	6	Understanding concepts, basics and application	Impacted the Third molar	Lecture delivery using the PowerPoint system	Written exam and clinical
24	6	Understanding concepts, basics and application	Dental Implants	Lecture delivery using the PowerPoint system	Written exam and clinical

11. Course evaluation	
Quizzes and short exams, questions and discussions in the lecture, absences, and the final exam. Practical: class exam, activity, practical exams, clinical training exams.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Contemporary Oral and Maxillofacial Surgery
Main references (source)	Contemporary Oral and Maxillofacial Surgery
Recommended books and references (scientific journals, reports…)	Contemporary Oral and Maxillofacial Surgery
Electronic references, websites.	Contemporary Oral and Maxillofacial Surgery

Course Description

1. Course Name:
General Medicine
2. Course Code:
DNT409
3. Semester/Year:
Annually/Fourth year
4. Description Preparation Date:
5/6/2025
5. Available Attendance Forms:
Lectures and Clinical Practice
6. Number of Credit Hours (Total) / Number of Units (Total)
120/4
7. Course administrator's name (mention all, if more than one name)
College of Medicine/University of Anbar
8. Course Objectives

Course Objectives	to be prepared for high-level science in general medicine and recognition of diseases and their diagnostics and treatments and their relationship to his exact speciality as a dentist.
9. Teaching and Learning Strategies	
Strategy	1. Method of giving lectures by explaining and clarifying the use of PowerPoint. 2. Urge students to use the library as a learning method. 3. The self-learning method supports the learning environment. 4. Urge students to use the Internet as a supportive means of learning. 5. Use the principles of discussion and dialogue to increase student absorption. 6. Implementation of education through the practical part.

10. Course Structure

Week	Hours	ILOs	Unit/Module orTopic Title	Teaching Method	Assessment Method
1	1	Understanding concepts, basics and application	Systemic hypertension	Lecture delivery using the PowerPoint system	Written exam and clinical
2	1	Understanding concepts, basics and application	Ischemic heart disease	Lecture delivery using the PowerPoint system	Written exam and clinical
3	2	Understanding concepts, basics and application	Hematemisis	Lecture delivery using the PowerPoint system	Written exam and clinical
4	2	Understanding concepts, basics and application	Rheumatic fever	Lecture delivery using the PowerPoint system	Written exam and clinical
5	2	Understanding concepts, basics and application	Infective endocarditis	Lecture delivery using the PowerPoint system	Written exam and clinical
6	2	Understanding concepts, basics and application	Diseases of the heart valves	Lecture delivery using the PowerPoint system	Written exam and clinical
7	1	Understanding concepts, basics and application	Hemorrhagic diseases	Lecture delivery using the PowerPoint system	Written exam and clinical
8	2	Understanding concepts, basics and application	Anemias	Lecture delivery using the PowerPoint system	Written exam and clinical
9	2	Understanding concepts, basics and application	Hemolytic anemia	Lecture delivery using the PowerPoint system	Written exam and clinical
10	2	Understanding concepts, basics and application	Erythrocytosis and polycythemia	Lecture delivery using the PowerPoint system	Written exam and clinical
11	2	Understanding concepts, basics and application	Leukemia	Lecture delivery using the PowerPoint system	Written exam and clinical

12	2	Understanding concepts, basics and application	Esophagitis	Lecture delivery using the PowerPoint system	Written exam and clinical
13	2	Understanding concepts, basics and application	Acute abdomen	Lecture delivery using the PowerPoint system	Written exam and clinical
14	2	Understanding concepts, basics and application	Diabetes mellitus	Lecture delivery using the PowerPoint system	Written exam and clinical
15	2	Understanding concepts, basics and application	Tuberculosis	Lecture delivery using the PowerPoint system	Written exam and clinical
16	2	Understanding concepts, basics and application	Symptoms of elimentary tract disease	Lecture delivery using the PowerPoint system	Written exam and clinical
17	1	Understanding concepts, basics and application	Branchial asthma	Lecture delivery using the PowerPoint system	Written exam and clinical
18	1	Understanding concepts, basics and application	Peptic ulcer	Lecture delivery using the PowerPoint system	Written exam and clinical
19	1	Understanding concepts, basics and application	Jaundice	Lecture delivery using the PowerPoint system	Written exam and clinical
20	2	Understanding concepts, basics and application	Diarrhea and constipation	Lecture delivery using the Power Point system	Written exam and clinical
21	2	Understanding concepts, basics and application	Upper GIT bleeding and hepatic disorders causes	Lecture delivery using the PowerPoint system	Written exam and clinical
22	2	Understanding concepts, basics and application	Congestive heart failure	Lecture delivery using the PowerPoint system	Written exam and clinical
23	2	Understanding concepts, basics and application	Systemic hypertension	Lecture delivery using the PowerPoint system	Written exam and clinical
24	1	Understanding concepts, basics and application	Ischemic heart disease	Lecture delivery using the PowerPoint system	Written exam and clinical

25	1	Understanding concepts, basics and application	Hematemisis	Lecture delivery using the PowerPoint system	Written exam and clinical
26	1	Understanding concepts, basics and application	Rheumatic fever	Lecture delivery using the PowerPoint system	Written exam and clinical
27	1	Understanding concepts, basics and application	Infective endocarditis	Lecture delivery using the PowerPoint system	Written exam and clinical
28	**1**	Understanding concepts, basics and application	Diseases of the heart valves	Lecture delivery using the PowerPoint system	Written exam and clinical

11. Course evaluation	
Quizzes and short exams, questions and discussions in the lecture, absences, and the final exam. Practical: class exam, activity, practical exams, clinical training exams.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1. Davidson's principles and practice of medicine, 21st edition, 2010. 2. Oxford handbook of clinical medicine, 8th edition, 2010. 3. Dental management of medically compromised patients, 7th edition, 2007. 4. Medical problems in dentistry, 6th edition, 2010.
Main references (source)	
Recommended books and references (scientific journals, reports…)	1. Davidson's principles and practice of medicine, 21st edition, 2010. 2. Oxford handbook of clinical medicine, 8th edition, 2010. 3. Dental management of medically compromised patients, 7th edition, 2007. 4. Medical problems in dentistry, 6th edition, 2010.
Electronic references, websites.	1. Davidson's principles and practice of medicine, 21st edition, 2010. 2. Oxford handbook of clinical medicine, 8th edition, 2010. 3. Dental management of medically compromised patients, 7th edition, 2007. 4. Medical problems in dentistry, 6th edition, 2010.

Course Description

1. Course Name:
General Surgery
2. Course Code:
DNT408
3. Semester/Year:
Annually/Fourth year
4. Description Preparation Date:
5/6/2025
5. Available Attendance Forms:
Lectures and Clinical Practice
6. Number of Credit Hours (Total) / Number of Units (Total)
120/4
7. Course administrator's name (mention all, if more than one name)
Prof. Dr, Tahrir Nazal Naif Assist Prof. Dr. Sabah AbdulRasool Hammodi

8. Course Objectives

Course Objectives	Preparation of a student at a high level of science about general surgery and identification of general surgical cases and their methods of diagnosis and treatment, and their relationship to their exact specialist as a dentist.

9. Teaching and Learning Strategies

Strategy	1. Method of giving lectures by explaining and clarifying the use of PowerPoint. 2. Urge students to use the library as a learning method. 3. The self-learning method supports the learning environment. 4. Urge students to use the Internet as a supportive means of learning. 5. Use the principles of discussion and dialogue to increase student absorption. 6. Implementation of education through the practical part.

10. Course Structure

Week	Hours	ILOs	Unit/Module orTopic Title	Teaching Method	Assessment Method
1	1	Understanding concepts, basics and application	Case history	Lecture delivery using the Power Point system	Written exam and clinical
2	1	Understanding concepts, basics and application	Clinical examination	Lecture delivery using the PowerPoint system	Written exam and clinical
3	2	Understanding concepts, basics and application	Surgical wounds and infections	Lecture delivery using the PowerPoint system	Written exam and clinical
4	2	Understanding concepts, basics and application	Wound healing	Lecture delivery using the PowerPoint system	Written exam and clinical
5	2	Understanding concepts, basics and application	Hemorrhage and blood transfusion	Lecture delivery using the PowerPoint system	Written exam and clinical
6	2	Understanding concepts, basics and application	Fracture and dislocation of bones	Lecture delivery using the PowerPoint system	Written exam and clinical
7	1	Understanding concepts, basics and application	Head injuries	Lecture delivery using the PowerPoint system	Written exam and clinical
8	2	Understanding concepts, basics and application	Parenteral feeding	Lecture delivery using the PowerPoint system	Written exam and clinical
9	2	Understanding concepts, basics and application	Fluid and electrolytes balance	Lecture delivery using the PowerPoint system	Written exam and clinical
10	2	Understanding concepts, basics and application	Surgical resuscitation and medical emergencies	Lecture delivery using the PowerPoint system	Written exam and clinical
11	2	Understanding concepts, basics and application	Differential diagnosis of swelling in the neck	Lecture delivery using the PowerPoint system	Written exam and clinical

12	2	Understanding concepts, basics and application	Diseases of the nose and Para nasal sinuses	Lecture delivery using the PowerPoint system	Written exam and clinical
13	2	Understanding concepts, basics and application	Diseases of pharynx and larynx and esophagus	Lecture delivery using the PowerPoint system	Written exam and clinical
14	2	Understanding concepts, basics and application	General anesthesia, pain management and postoperative care	Lecture delivery using the PowerPoint system	Written exam and clinical
15	2	Understanding concepts, basics and application	Chest trauma and diseases	Lecture delivery using the PowerPoint system	Written exam and clinical
16	2	Understanding concepts, basics and application	Thyroid gland and goiter	Lecture delivery using the PowerPoint system	Written exam and clinical
17	1	Understanding concepts, basics and application	Tumors, Cyst, Ulcer & fistula	Lecture delivery using the PowerPoint system	Written exam and clinical
18	1	Understanding concepts, basics and application	Case history	Lecture delivery using the PowerPoint system	Written exam and clinical
19	1	Understanding concepts, basics and application	Clinical examination	Lecture delivery using the PowerPoint system	Written exam and clinical
20	2	Understanding concepts, basics and application	Surgical wound and infections	Lecture delivery using the Power Point system	Written exam and clinical
21	2	Understanding concepts, basics and application	Wound healing	Lecture delivery using the PowerPoint system	Written exam and clinical
22	2	Understanding concepts, basics and application	Hemorrhage and blood transfusion	Lecture delivery using the PowerPoint system	Written exam and clinical
23	2	Understanding concepts, basics and application	Fracture and dislocation of bones	Lecture delivery using the PowerPoint system	Written exam and clinical
24	1	Understanding concepts, basics and application	Basic surgical instruments (exodontia)	Lecture delivery using the PowerPoint system	Written exam and clinical

11. Course evaluation	
Quizzes and short exams, questions and discussions in the lecture, absences, and the final exam. Practical: class exam, activity, practical exams, clinical training exams.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1. Baily and Love's Short Practice of Surgery, 25th edition, 2008. 2. Schwarz's principles of surgery.
Main references (source)	
Recommended books and references (scientific journals, reports…)	1. Baily and Love's Short Practice of Surgery, 25th edition, 2008. 2. Schwarz's principles of surgery.
Electronic references, websites.	1. Baily and Love's Short Practice of Surgery, 25th edition, 2008. 2. Schwarz's principles of surgery.

Course Description

1. Course Name:
Prosthetic
2. Course Code:
DNT406
3. Semester / Year:
2024–2025
4. Description Preparation Date:
10/4/2025
5. Available Attendance Forms:
Attendance and clinical practice
6. Number of Credit Hours (Total) / Number of Units (Total)
30h: Theory -90h clinical/8:Units
7. Course administrator's name (mention all, if more than one name)
Lecture: Mohammed. R. Abduljabbar Email: den.m.ryadh@uoanbar.edu.iq
8. Course Objectives

Course Objectives	● Enabling students to obtain knowledge and understanding of the work of dentu The student learns the basics of this work. ● Enabling students to obtain knowledge and how to deal with the patient with causing any harm to the patient. ● Enabling students to obtain knowledge and understanding of each subject a what is the best method of work through comprehensive knowledge of anatomical signs that help stabilise the denture.
9. Teaching and Learning Strategies	
Strategy	● Theoretical lectures inside the classroom. ● Student groups ● Clinic activities ● E–learning on campus (use of the Internet)

10. Course Structure					
Week	**Hours**	**ILOs**	**Unit/Module orTopic Title**	**Teaching Method**	Assessment Method
1	4	Osteology importance • Factors that influence the form and size of the supporting structures • Supporting structures in the maxillary edentulous foundation • The limiting structures of the upper denture • Osseous structures associated with the mandibular denture • Maxillary and mandibular stressbearing areas • Areas requiring relief in impression • The pattern of bone resorption	Anatomy and physiology as related to dental prosthesis osteology)	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
2	4	Muscles of facial expression • Functions of muscles of facial expression • Muscles of mastication • Muscles of the soft palate • Tongue • Muscle physiology • Oral mucous	Anatomy and physiology as related to dental prosthesis (Myology	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**

		membrane • Salivary gland and saliva □ Physiologic factors affect salivation □ Function of saliva			
3	4	Patient interview • The objectives of prosthodontic treatment • Oral examination • Sequences of oral examination	Diagnosis and treatment plan for RPD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
4	4	Interpretation of Examination Data • Root morphology • Periodontal considerations • Needsfor extraction • Indication of RPD • The Recommended Infection Control Practices for Dental Treatment	To be continued Diagnosis and treatmen	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
5	4	Pre-prosthetic procedures □ Oral surgical preparation □ Exostosis and tori □ Hyperplasic tissue □ Bony spine and knife edge ridge □ Augmentation of alveolar bone	Preparation of the mouth to receive an RPD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
6	4	Maximum benefit from using tissue conditioning material □ Periodontal preparation □ Abutment teeth	Preparation of the mouth to receive an RPD (Continued	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**

		preparation The sequences of abutment tooth preparation on sound enamel or existing restoration are as follow The procedure of rest seat preparation on sounds enamel surface			
7	4	Impression material Differences between reversible and irreversible hydrocolloid Important Precautions to Be Observed in the Handling of 1 124 Hydrocolloid Impressions. • Stepsin impression making The step-by-step procedure and important points to observe in the making of a hydrocolloid impression	Classification of impression technique	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
8	4	Step-by-Step Procedure for Making a Stone Cast from a Hydrocolloid Impression • Possible Causes of an Inaccurate and/or a Weak Cast of a Dental Arch •	Classification of impression technique (To be continue	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**

		Technique used for individual impression trays • McLean's physiologic impression • The Recommended Infection Control Practices for Dental Treatment			
9	4	The main problems which might occur in tooth–tissue support • Factors influencing the support of a distal extension denture base • Anatomic form impression • Methods for obtaining functional support for the distal extension base	Designing Support	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
10	4	Initial inspection • Methods and procedures for fitting the framework • Laboratory inspection • Clinical procedures • Occlusal evaluation • Clinical procedures after fitting the framework	Fitting the removable partial denture framework	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
11	4	The establishment of satisfactory occlusion for RPD • Desirable occlusal contact relationshipsfor	Occlusal Relationship for Removable Partial Denture	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**

		various RPD • Occlusion in RPD's(Requirements			
12	4	Methodsfor establishing occlusal relationship • Interocclusal records • Excellent occlusal recording materials	Jaw relation in RPD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
13	4	The trial dentures on the mounted casts • The trial denturesin patient s mouth • Esthetic try-in • Denture base consideration • The patient evaluation • Phonetics evaluation • Verification of Jaw Relation • Choice of tooth materials	Trial RPD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
14	4	Final inspection of the prosthesis before insertion • Verifying the removable partial denture (RPD) framework fit • Assessment of acrylic resin denture base adaptation • Assessment of peripheral extension of the denture base • Evaluating occlusion • Adjusting retentive clasp assembly, if needed • Providing instructions for the patient in the use	Initial placement and adjustment of RP	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**

		and care of the prosthesis			
15	4	Surgical Guides(Templates) • Commonly Used Pre-prosthetic Procedures • Ridge Alveoloplasty with Extraction • Intra-septal Alveoloplasty • Edentulous Ridge Alveoloplasty Buccal Exostosis • Maxillary Tuberosity Reductions Mandibular Tori Maxillary Tori Mylohyoid Ridge Reduction Genial Tubercle Reduction	Pre- prosthetic surgery	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
16	4	Soft Tissue Procedures Maxillary Soft Tissue Tuberosity Reduction Maxillary Labial Frenectomy Excision of Redundant/Hyper mobile Tissue Overlying the Tuberosities Excision of inflammatory Fibrous Hyperplasia (Epulis Fissuratum) Inflammatory Papillary Hyperplasia of the Palate	Pre-prosthetic Surgical Considerations (Continued	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**

17	4	Mental Attitude (Psychological factor) House classification Social information. Systemic (medical) status	Diagnosis and treatment plan CD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
18	4	Past dental history Local factors Intraoral examination (mucosa, ridge, hard palate, soft palate, tongue and post mylohyoid space) Radiographic examination Diagnostic cast– advantages • Treatment planning • Prognosis • Patient education	To be continued diagnosis and treatment plan for CD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
19	4	Definition • Objective of complete denture impression • Biologic considerations for mandibular impressions • Theories of impression techniques • Primary impression • Common errors in impression makings • Secondary (final) impression Materials used for final impression Stepsfor making final impression	Impression in CD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**

		Correction of special tray Making the final impression Making final impression utilizing digital intraoral scanner			
20	4	Anatomy of TMJ • How does the TMJ move during function? • The muscles and ligaments of TMJ • Mandibular axis • Mandibular movement. (Basic and functional movement) • Border movement (sagittal, horizontal and coronal) • Jaw registration of condylar movements • Articulator's classifications • Face-bow transfer	TMJ and mandibular movement	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
21	4	Digital partial dentures and rapid prototyping procedure • Difference between conventional and digital RPD Procedure • Advantages highlight the benefits of the digital over the conventional method	Digital RPD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**

22	4	Definition • Importance of Vertical Jaw Relation • Factors Affecting Vertical Jaw Relation • Effects of increased vertical relation • Effects of decreased vertical relation • Vertical Dimension at Rest • Facial measurements after swallowing and relaxing • Vertical Dimension at Occlusion • Methods of Measuring Mechanical methods Physiological methods	Vertical jaw relation	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
23	4	Centric relation Methods must be used to position the jaw in centric relation	Horizontal jaw relation (Centric occlusion	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
24	4	Definition • Importance of trial denture • Objective of trail denture • Extra oral examination of trail denture • Trail denture assessment in the mouth • Incorporation of posterior palatal seal • Patient role in trail denture • Technician	Try in stage in CD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**

		role in trail denture			
25	4	Complete denture insertion procedure • Denture base adjustment • Adjustment of denture border • Dentist evaluation Patient evaluation • Friend's evaluation	Insertion of CD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
26	4	Errorsin occlusion • Intra oral occlusal correction • Extra oral selective grinding (centric and eccentric correction) • Appearance with new denture • Mastication with new denture • Speaking with new denture • Oral hygiene with dentures	Adjustments of CD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
27	4	Freeway space problem • Pain in the sulcus • Pain on crest of the alveolar ridge • Looseness of one or both dentures • Speech problems • Chewing problems	Post insertion complications in CD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
28	4	Factorsinfluencing the decision to reline an existing denture • Impression Technique for relining and rebasing	relining and rebasing of CD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**

29	4	Repair of fractured denture teeth • Complex fracture repairs	Repair of fractured RPD	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
30	4	Denture base material • Clasp material • Types of clasps	Esthetic denture materials	Lectures + clinic	**Daily, semester, and final exams = weekly evaluation in the clinic**
31					

11. Course Evaluation

1	The first theoretical exam	12
2	The first practical exam	8
3	The second theoretical exam	12
4	The second practical exam	8
5	Final practical and theoretical exam	60

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Book of complete denture.
Main references (source)	Complete denture.
Recommended books and references (scient journals, reports…)	Monthly scientific journals, in addition to repo that work periodically to improve the properties materials
Electronic references, websites.	Using the Internet for the purpose of learn everything new in the field of dental materials.

Course Description

1. Course Name:
Orthodontics
2. Course Code:
DNT403
3. Semester / Year:
2025-2026
4. Description Preparation Date:
17/6/2025
5. Available Attendance Forms:
Attendance and clinical practice
6. Number of Credit Hours (Total) / Number of Units (Total)
30 theoretical hours and 120 practical hours
7. Course administrator's name (mention all, if more than one name)
Lecturer jassim ali (den.jassim .ali @uoanbar .edu.iq).Lecturer Laith Hamood Aswad (den.laith.hamood@uoanbar.edu.iq). Lecturer assem abbas .Lecturer mohammed khother
8. Course Objectives

Course Objectives	**Cognitive objectives:** **Gaining knowledge about the causes of malocclusion** **Methods of diagnosis and treatment** **Identify the types of orthodontic devices** **• Skills objectives for the course:** **Learn how to make different types of removable orthodontic devices** **• Emotional and value-based goals:** **Solving problems of poor dishes** **• General transferable skills:** **Preparing the student practically to deal with the removable orthodontic device**
9. Teaching and Learning Strategies	
Strategy	Lectures using powerpoint Training laboratories for making removable orthodontics Quarterly exams, mid-year exams, final exams, and short exams

10. Course Structure

Week	**Hours**	**ILOs**	**Unit/Module or Topic Title**	**Teaching Method**	Assessment Method

1	1	Orthodontic	**Introduction** - Definition of orthodontics - Definition of occlusion, normal, ideal and malocclusion	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
2	1	Orthodontic	Six keys of normal occlusion - Aims of orthodontic treatment	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
3	1	Orthodontic	- Important orthodontic definitions - Classification of malocclusion	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
4	1	Orthodontic	**Growth and development** - Definitions of growth, development and maturity Stages of development (ovum till birth)	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
5	1	Orthodontic	- Theories of bone growth Definitions of growth site, growth center, displacement, and drift	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
6	1	Orthodontic	- Growth curve and maximum growth spurt Prenatal and postnatal growth and development of hard tissues	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
7	1	Orthodontic	Prenatal and postnatal growth and development of soft tissues Developmental anomalies	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
8	1	Orthodontic	- Jaw rotation Compensation and adaptation	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final

9	1	Orthodontic	Deciduous and permanent dentition a–Stages of tooth development: Formation,) calcification and root completion)	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
10	1	Orthodontic	b-Tooth eruption (stages and theories), Sequences and timing of eruption	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
11	1	Orthodontic	Development of occlusion a. new born oral cavity. b. Deciduous dentition stage – Dental changes till 6 years of age.	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
12	1	Orthodontic	c. Early mixed dentition stage - eruption of first molars and incisors. d. Late mixed dentition stage - eruption of canines and premolars Permanent dentition - eruption second and third molars.	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
13	1	Orthodontic	**Etiology of malocclusion:** -Genetic and inherited etiological factors of malocclusion	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
14	1	Orthodontic	Classification of etiological factors a. General factors i. Skeletal factors	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final

15	1	Orthodontic	ii. Soft tissue factors	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
16	1	Orthodontic	iii. dental factors	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
17	1	Orthodontic	b. Local factors (definitions without treatment)	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
18	1	Orthodontic	Tooth movement Tissue a. changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth movement Accelerated b. tooth movement.	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
19	1	Orthodontic	c. Biomechanics i. Force (application, type, magnitude, duration and direction) ii. Center of resistance and rotation, moment of force and moment of couple. iii. Types of tooth movement iv. Rate of tooth movement and factors affecting it.	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
20	1	Orthodontic	d. iatrogenic effect of tooth movement (pain, mobility, pulp effect, root resorption, white	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final

			spot lesions).		
21	1	Orthodontic	**Biomechanics**	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
22	1	Orthodontic	**Anchorage** (definition, indications, types)	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
23	1	Orthodontic	Orthodontic appliances a. Overview: i. passive orthodontic appliances (habit breaker, retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination) iii. Other active appliances: space regainer, Invisalign	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
24	1	Orthodontic	b. Removable Orthodontic Appliance: i. Properties of various components (SS wire, acrylic) ii. (Components: active components (springs, screws and (elastics) retentive components (clasps) acrylic base (	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final

			plate and bite (planes anchorage		
25	1	Orthodontic	iii. Design of a removable orthodontic appliance iv. Construction of a removable orthodontic appliance v. Soldering and welding vi. Post-insertion instructions and guidelines	Theoretical lecture using Power Point	Short, sedimentary exams, semi -year and final
26	1	Orthodontic	c. Fixed orthodontic appliance: Types, components, advantages, limitation, biomechanics, banding vs. bonding	Theoretical lecture using Power Point	Short, sedimentary exams, semi -year and final
27	1	Orthodontic	d. Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action	Theoretical lecture using Power Point	Short, sedimentary exams, semi -year and final
28	1	Orthodontic	*continue* Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action	Theoretical lecture using Power Point	Short, sedimentary exams, semi -year and final
29	1	Orthodontic	f. Retention and retainers Retention	Theoretical lecture using Power Point	Short, sedimentary exams, semi -year and

			(definition, reason, time)		final
30	1	Orthodontic	Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)	Theoretical lecture using Power Point	Short, sedimentary exams, semi –year and final
31					

11. Course Evaluation

Distributing the degree from 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, editorial, reports … etc.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary Orthodontics,William R. Proffit Sixth edition Textbook of Orthodontics Singh 2007
Main references (source)	Text books
Recommended books and references (scientific journa reports…)	Reports published on the college website
Electronic references, websites.	College website

Course Description

1. Course Name:
Periodontology
2. Course Code:
DNT407
3. Semester / Year:
2 semester/fourth stage
4. Description Preparation Date:
/9/4/2025
5. Available Attendance Forms:
weekly
6. Number of Credit Hours (Total) / Number of Units (Total)
90 hr practical/30 hr theory
7. Course administrator's name (mention all, if more than one name)
Lec. Lara K. Hussain. Email: l.kusrat.IK@uoanbar.edu.iq/ Assist. Prof. Dr. Ahmed Maki Abd Razaq
8. Course Objectives

Course Objectives	For diagnosis, treatment and prevention of periodontal diseases.
9. Teaching and Learning Strategies	
Strategy	-Knowledge and understanding -Pharmaceutical and surgical treatment of gum diseases.

10. Course Structure

Week	Hours	ILOs	Unit/Module orTopic Title	Teaching Method	Assessment Method
1	1	Examination and treatment	Terms & definitions frequently used in periodontology	Lecture(power point}	Exam &seminar
2	1	Examination and treatment	Anatomy of the periodontium	Lecture(power point}	Exam &seminar

3	1	Examination and treatment	Anatomy of the periodontium	Lecture(power point}	Exam &seminar
4	1	Examination and treatment	Anatomy of the periodontium	Lecture(power point}	Exam &seminar
5	1	Examination and treatment	Anatomy of the periodontium	Lecture(power point}	Exam &seminar
6	1	Examination and treatment	Classification of periodontal diseases and conditions (2017)	Lecture(power point}	Exam &seminar
7	1	Examination and treatment	Classification of periodontal diseases and conditions (2017)	Lecture(power point}	Exam &seminar
8	1	Examination and treatment	Classification of periodontal diseases and conditions (2017)	Lecture(power point}	Exam &seminar
9	1	Examination and treatment	Etiology of periodontal disease	Lecture(power point}	Exam &seminar
10	1	Examination and treatment	Etiology of periodontal disease and risk factors	Lecture(power point}	Exam &seminar
11	1	Examination and treatment	Microbiologic specificity of periodontal diseases	Lecture(power point}	Exam &seminar
12	1	Examination and treatment	Dental calculus	Lecture(power point}	Exam &seminar
13	1	Examination and treatment	Dental stain	Lecture(power point}	Exam &seminar

14	1	Examination and treatment	Etiology of periodontal disease	Lecture(power point}	Exam &seminar
15	1	Examination and treatment	Etiology of periodontal disease	Lecture(power point}	Exam &seminar
16	1	Examination and treatment	Etiology of periodontal disease and risk factors	Lecture(power point}	Exam &seminar
17	1	Examination and treatment	Impact of periodontal infection on systemic health	Lecture(power point}	Exam &seminar
18	1	Examination and treatment	Impact of periodontal infection on systemic health	Lecture(power point}	Exam &seminar
19	1	Examination and treatment	Periodontal indices	Lecture(power point}	Exam &seminar
20	1	Examination and treatment	The periodontal pocket	Lecture(power point}	Exam &seminar
21	1	Examination and treatment	Treatment plan guidelines	Lecture(power point}	Exam &seminar
22	1	Examination and treatment	Treatment plan guidelines § - Phase 1 (behavior change, removal of supragingival dental biofilm and risk factor control):	Lecture(power point}	Exam &seminar

23	1	Examination and treatment	Treatment plan guidelines - Phase 2 (cause-related therapy)	Lecture(power point}	Exam &seminar
24	1	Examination and treatment	Treatment plan guidelines - Phase 3 (corrective/surgical phase)	Lecture(power point}	Exam &seminar
25	1	Examination and treatment	Treatment plan guidelines - Phase 4 (maintenance therapy)	Lecture(power point}	Exam &seminar
26	1	Examination and treatment	Plaque biofilm control for the periodontal patient	Lecture(power point}	Exam &seminar
27	1	Examination and treatment	Plaque biofilm control for the periodontal patient	Lecture(power point}	Exam &seminar
28	1	Examination and treatment	Periodontal instruments and sharpening	Lecture(power point}	Exam &seminar
29	1	Examination and treatment	Breath Malodor (Halitosis)	Lecture(power point}	Exam &seminar
30	1	Examination and treatment	Systemic anti-infective therapy for periodontal diseases	Lecture(power point}	Exam &seminar
11. Course Evaluation					
Distributing the score out if 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports,...etc.					

12. Learning and Teaching Resources	
Required textbooks (curricular books any)	Lindhe's Clinical Periodontology and Implant Dentistry
Main references (source)	Carranza's Clinical Periodontology
Recommended books and referenc (scientific journals, reports…)	Lindhe's Clinical Periodontology and Implant Dentistry
Electronic references, websites.	Carranza's Clinical Periodontology
Clinical and preclinical requirements	
Credit hours required: Requirement details	
3 h/week (90 h/year)	
Preclinical:	
Training on ergonomic aspects of grasping and use of the instruments and their maintenance, i.e. resharpening	
Clinical	
- Recording medical and dental history	
- Patient’s education and motivation	
- Oral hygiene instructions (OHI)	
- Recording periodontal indices	
- Diagnosis according to classification of periodontal disease and conditions (2017)	
- Non-surgical periodontal therapy (manual scaling + polishing)	

Course Description

1. Course Name:
Oral Pathology
2. Course Code:
DNT402
3. Semester / Year:
Fourth Stage
4. Description Preparation Date:
9/5/2025
5. Available Attendance Forms:
Weekly
6. Number of Credit Hours (Total) / Number of Units (Total)
60 Hours theory/ 60 Hours practical
7. Course administrator's name (mention all, if more than one name)
Name: Assistant Lecturer Ahlam Thabet Badawi Email: ahlam.th87@uoanbar.edu.iq

8. Course Objectives	
Course Objectives	Qualifying dentists are capable of identifying the important causes of various oral diseases. Studying the diagnosis of various disease processes. Studying methods of using different dyes to identify these diseases and their causes.
9. Teaching and Learning Strategies	
Strategy	Knowledge and understanding. The ability to distinguish betwe different diseases. How to use dyes. Learning to cut tissue

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Knowing the diagnosis and pathogenesis of the diseases	Introduction & Principles of biopsy techniques	Lectures	Exam Seminar
2	2	Knowing the diagnosis and pathogenesis of the diseases	Healing in oral pathology	Lectures	Exam + Seminar
3	2	Knowing the diagnosis and	Dental caries	Lectures	Exam + Seminar

		pathogenesis of the diseases			
4	2	Knowing the diagnosis and pathogenesis of the diseases	Pulp pathology	Lectures	Exam + Seminar
5	2	Knowing the diagnosis and pathogenesis of the diseases	Periapical pathology	Lectures	Exam + Seminar
6	2	Knowing the diagnosis and pathogenesis of the diseases	Inflammatory diseases of bone	Lectures	Exam + Seminar
7	2	Knowing diagnosis and pathogenesis of the diseases	Fibro-osseous lesion of bones	Lectures	Exam + Seminar
8	2	Knowing diagnosis and pathogenesis of the diseases	Genetic and metabolic disease of bone	Lectures	Exam + Seminar
9	2	Knowing diagnosis and pathogenesis of the diseases	Giant cell lesions of bone	Lectures	Exam + Seminar
10 11	4	Knowing diagnosis and pathogenesis of the diseases	Developmental disturbances	Lectures	Exam + Seminar
12 13	4	Knowing diagnosis and pathogenesis of the diseases	Cysts of the jaws	Lectures	Exam + Seminar
14 15	4	Knowing diagnosis and pathogenesis of the diseases	Odontogenic tumors	Lectures	Exam + Seminar
16 17	4	Knowing diagnosis and pathogenesis of the diseases	Bone neoplasia	Lectures	Exam + Seminar
18 19	4	Knowing diagnosis and pathogenesis of the diseases	Benign Epithelial lesion	Lectures	Exam + Seminar
20	2	Knowing diagnosis and pathogenesis of the diseases	Malignant epithelial tumors	Lectures	Exam + Seminar
21	2	Knowing diagnosis and pathogenesis of the diseases	Oral mucosa	Lectures	Exam + Seminar
22	2	Knowing diagnosis and pathogenesis of the diseases	Infections	Lectures	Exam + Seminar
23 24	4	Knowing diagnosis and pathogenesis of the diseases	Immune mediated diseases	Lectures	Exam + Seminar

25 26	4	Knowing diagnosis and pathogenesis of the oral diseases	Connective tissue diseases	Lectures	Exam + Seminar
27	2	Knowing diagnosis and pathogenesis of the oral diseases	Salivary gland diseases	Lectures	Exam + Seminar
28	2	Knowing diagnosis and pathogenesis of the oral disease	Salivary gland tumors	Lectures	Exam + Seminar
29	2	Knowing diagnosis and pathogenesis of the oral diseases	Physical and chemical injuries	lectures	Exam +seminar
30	2	Knowing diagnosis and pathogenesis of the oral diseases	Forensic dentistry	lectures	Exam +seminar

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books any)	Neville oral and maxillofacial pathology
Main references (source)	Neville oral and maxillofacial pathology
Recommended books and references (scientific journals, reports…)	Neville oral and maxillofacial pathology
Electronic references, websites.	Neville oral and maxillofacial pathology

Course Description

1. Course Name:
Conservative
2. Course Code:
DNT405
3. Semester / Year:
2024-2025
4. Description Preparation Date:
5/6/2025
5. Available Attendance Forms:
Attendance and clinical practice
6. Number of Credit Hours (Total) / Number of Units (Total)
8:Units
7. Course administrator's name (mention all, if more than one name)
Assist. Prof. Hanaa AbdulJabar Saleh Assist. Lecturer Othman Husham Abdul Hameed

8. Course Objectives	
Course Objectives	Teach students the diagnosis and treatment planning for a patient Give complete information about dental materials used in conservativ dentistry. Give a n information about endodontic treatment.
9. Teaching and Learning Strategies	
Strategy	Theoretical lectures inside the classroom. Student groups. Clinic activities.se of the Internet

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	*Enamel Structure *Properties of Enamel 1. Hardness 2.Brittleness 3.Solubility to acids 4.Color 5.Permeability Clinical appearance and defects 1.Color changes associated with demineralization	Biological consideration of enamel structure and its clinical significance in practice of operative dentistry	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

		2.Cavitation 3.Wear 4.Faults and fissures 5.Cracks			
2	2	*Functions Dentin can be distinguished from enamel (during tooth preparation), by: 1.Color: 2.Reflectance: 3.Hardness: 4.Sound: There are two main types of dentin which are: 1.Intertubular dentin: 2.Peritubular dentin: Permeability of Dentin Sensitivity of Dentin Dentinoenamel junction: Theories of thermal sensitivity 1.Theory of thermal shock: 2.A hydrodynamic theory: Physiologic and Tertiary Dentin Physiologic dentin Carious dentin Sclerotic dentin Reparative dentin (tertiary dentin)	Biological consideration of dentine structure and its clinical significance in practice of operative dentistry	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic
3	2	Infection Control Patient Assessment Medical History Chief Complaint Dental History Clinical Examination 1.EVALUATION OF THE DENTITION A.Assessment of caries risk and plaque:	Patient evaluation,diagnosis and treatment planning	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

		B.Detection of caries lesions: C.Assessment of the pulp: 1. The application of cold and hot 2. Electric pulp tester 3. A test cavity: Percussion test: Palpation: D.Evaluation of existing restorations 1.Structural integrity: 2.Marginal opening: 3.Caries: 4.Restoration-related periodontal health: 5.Occlusal and interproximal contacts: 6.Esthetics: E.Evaluation of Occlusion and Occlusal Wear Attrition: Evaluation of tooth integrity and fractures F.Esthetic Evaluation 1.EVALUATION OF THE PERIODONTIUM 2.EVALUATION OF RADIOGRAPH 3.EVALUATION OF DIAGNOSTIC CASTS Treatment Plan Treatment Sequence			

4	2	1-Host Factors A-Teeth Morphology of teeth: Composition of teeth: B-Saliva: C-Subject: D-Social & demographic factors: F-Fluoride: 2-Dental plaque: 3- Diet: CLASSIFICATION OF DENTAL CARIES In addition, caries could be classified according to the type and severity of the lesion into: 1 PROGRESSION OF CARIES CLINICAL CHARACTERISTIC OF ENAMEL CARIES CLINICAL CHARACTERISTIC OF DENTINAL CARIES CARIES DETECTION AND DIAGNOSIS Visual examination * New Caries Detection Devices 1.Electronic caries monitors 2.Direct digital radiographs 3.Intra-Oral camera for caries detection and for patient motivation. 4.Magnification using Loupes, and Dental Microscope. 5.Infrared Laser Fluorescence (DIAGNOdent) 6.Fiber-optic transillumination 7.Caries detector dyes	Caries management (diagnosis and treatment strategies)	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

		Caries Prevention and Treatment New Technologies for Caries Removal and Cavity Preparation (Minimal Invasive Dentistry) 1. Air abrasion: 2. Chemo mechanical method: 3. Laser devices: 4. Smart bur (Smartprep) 5. Ozone treatment			
5	2	*Caries Lesions * Diagnosis * Restorative Treatment * Noncarious Cervical Lesions NCCL(s) Etiology * Toothbrush abrasion * Erosion * Abrasion * Abfraction * Treatment approaches	Cervical lesions (carious and noncarious)	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic
6	2	A-Effect of Local Anesthetic on the Pulp B-Effect during cavity and crown preparation (cutting procedures) 1-Thermal injury (frictional heat) Basic factors in rotary instrumentation that cause temperature rise in the pulp: 2-Transection of the odontoblastic processes 3-Dehydration 4-Remaining dentin thickness (RDT)	Restorative dentistry and pulpal health	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

		5-Pulpal exposure 6-Pin insertion C-Effect of lining materials and procedure D-Effect of filling materials and procedure Composite resins: Acid etching: Dental amalgam: E-Accumulative effect: Heat of polishing:			
7	2	I-Protective Base: II- Indirect Pulp Capping Material used for IPC Procedure (1PC): III- Direct Pulp Capping Indications Requirements for a successful vital pulp therapy A major disadvantage of calcium hydroxide materials Technique Recall Prognosis IV- Partial pulpotomy Indications Technique Recall Prognosis V- Full pulpotomy Indications Technique Recall	Management of deep seated caries	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

8	2	*Dead Tracts *Sclerotic Dentin *Reparative Dentin (Tertiary *Reactionary D.) *Infected Dentin *Affected Dentin *Inflammation of the pulp. Reversible Pulpitis Irreversible Pulpitis 1-Healthy Pulp 2- Hyperemia 3- Acute Pulpitis 4- Chronic Partial Pulpitis (without Necrosis) 5- Chronic Partial Pulpitis with Partial Necrosis 6- Chronic Total Pulpitis with Partial Necrosis 7- Total Necrosis of the Pulp 8- Acute Pulpitis Superimposed on Chronic Pulpitis	Inflammatory conditions of pulp	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic
9	2	CARIOUS DENTIN DIFFERENTIATION EXCAVATION LEVEL ONE- OR TWO-STEP PROCESS INDICATIONS FOR A LINER	Treatment of deep seated caries simplified anatomical modeling	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic
10	2	*Flouride Varnishes *Glass Ionomors *Advantages *Disadvantages	Fluoride releasing materials	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

		*Resin-modified glass-ionomer cement *Resin composites *Compomers (Polyacid-modified resin composites) *Giomers			
11	2	COMPOSITION OF DENTAL COMPOSITES 1. Organic Matrix 2. Fillers 3. Coupling Agents: 4. Initiator Agents: 5. Inhibitors: 6. Coloring Agents: 7. Ultraviolet Absorbers: TYPES OF COMPOSITES 1. Macrofilled Composite 2. Microfilled Composites Resins 3. Hybrid Composite Resins 4. Microhybrid, Nanohybrid, and Nanofill Microhybrid composites have evolved from traditional hybrid composites. Filler Flowable Composite Resin Condensable (Packable) Composites PROPERTIES OF COMPOSITE Coefficient of Thermal Expansion Wear resistance Polymerization Shrinkage Configuration or C-factor Microleakage TOOTH PREPARATION	Direct tooth coloured restorations(composite)	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

		GENERAL CONCEPTS FOR TOOTH PREPARATION FOR COMPOSITE RESTORATIONS: Designs of Tooth Preparation for Composites 1. Conventional preparation 2. Beveled conventional tooth preparation 3. Modified (conservative tooth preparation) COMPOSITE PLACEMENT Incremental Layering Technique Bulk Technique Final Contouring, Finishing and Polishing of Composite Restorations			
12	2	Definition Carbon dioxide Laser Neodymium Yttrium Aluminum Garnet Laser Erbium Laser Diode Laser Excimer lasers Mechanism of Laser Action Applications of laser in conservative dentistry 1. Aesthetic gingival re-contouring and crown lengthening	Dental laser and its applications in conservative dentistry	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

		2. Photochemical effects 3.Cavity preparation, caries, and restorative removal 4.Etching 5.Treatment of dentinal hypersensitivity 6.Diagostic application 7.Dental Infections 8.Analgesia 9.Nausea and Gagging 10.Endodontics Laser safety			
13	2	*Components of CAD/CAM dental technology * Advantages of CAD/CAM *Disadvantages of CAD/CAM *Setps of CAD/CAM 1.Computer surface digitization 2. Computer-aided designing (CAD) 3.Computer-aided manufacturing (CAM) a. Subtractive technique from a Solid Block: b. Additive technique (by applying Material on Die)	CAD/CAM techniques	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic
14	2	-Introduction and Scope of Endodontics. - OBJECTIVE OF ENDODONTIC TREATMENT	-Introduction and Scope of Endodontics -PULP AND PERI-RADICULAR PATHOLOGY	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

		– INDICATIONS FOR ROOT CANAL TREATMENT – CONTRAINDICATIONS FOR ROOT CANAL TREATMENT – ANATOMY OF DENTAL PULP – ROOT CANAL CONFIGURATION – BASIC PHASES OF TREATMENT			
15	2	–Objectives of Access Opening – Shape of access openings for each anterior tooth – Access opening of each posterior tooth – Minimal invasive endodontics – Guidelines for access cavity preparation – Procedure of Access opening for Anterior and posterior Teeth – Errors in Access Opening – Rubber Dam Materials – Rubber Dam Frame – Rubber Dam Clamps – Rubber Dam Puncture – Clamp Holder – Methods of Applying the Rubber Dam	–Access Opening preparation –Rubber Dam	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

16	2	- General Instruments - Intracanal Instruments - Standardization of Intracanal Instruments - Modes of action of Intracanal Instruments	Endodontic Instruments	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic
17	2	- Advantages - Disadvantages - Rotary instruments - Engine – driven files - ProTapers - Path Files - Pathfinde -Ultrasonic Handpieces - Sonic handpieces	Nickel – Titanium endodontic Instrument	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic
18	2	- Applications of radiographs - Working Length determination of teeth - Objective of the working length - Consequences of over-extended working length - Consequences of working short of actual working	Radiography in Endodontics	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

		- RADIOGRAPHIC METHOD OF WORKING LENGTH DETERMINATION - ELECTRONIC APEX LOCATORS			
19	2	- The Mechanical objectives - The Biological objectives - Aids in Preparation of Root Canal - Manual or Hand Instrumentation Techniques 1-Standardized Technique 2-Step-Back Technique 3-Step-Down Technique 4-Balanced Force Technique 5-Crown-Down (Pressure-Less) Technique	Shaping and Cleaning of Root Canal	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic
20	2	-Requirements of ideal irrigant solution - Functions of Irrlgants Irrigant solutions - Normal saline - Sodium hypochlorite - Chelating agent - Chlorhexidine	Root Canal Irrigation	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

		- Methods of irrigation -irrigants interaction			
21	2	- Aims of root canal obturation - Timing of obturation - Features of an ideal root canal obturation - Characteristics of an ideal root filling material - Materials used for obturation 1. Gutta percha Forms of Gutta percha Properties of gutta percha: 2. Silver points 3. Root canal sealers	part I-Obturation of root canal system	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic
22	2	- Armamentarium for obturation -obturation techniques - Lateral compaction technique - Warm Lateral Compaction - Vertical compaction technique - Continuous Wave Compaction Technique - Thermoplastic Injection Techniques	part I I-Obturation of root canal system	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

		- Single Match Gutta-Percha Cone Method			
23	2	- indications of dental veneers - Unfavourable conditions of dental veneers - General Concepts - Preparation Designs -posterior indirect restorations - Evaluation of Remaining Thickness and Adhesive Build-Up - Occlusal tissue reduction depends on four points - Preparation Principles for Indirect Restoration	Indirect restoration, types and preparation	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic
24	2	- Introduction CAD/CAM Ceramics Classifications 1. Glass-Ceramic system A-Feldspathic porcelain B-Leucite-reinforced 2. Alumina-Based System 3. Zirconia-Based System	Indirect restoration, materials and techniques	Lectures	Daily, semester, and final exams = weekly evaluation in the clinic

11. Course Evaluation

1	The first theoretical exam	12

2	The first practical exam	8
3	The second theoretical exam	12
4	The second practical exam	
5	Final practical and theoretical exam	60

12. Learning and Teaching Resources	
Required textbooks (curricular books, if ar	Summitts fundamentals of operative dentistry: a contemporary approach.4th edition. Path way of the pulp
Main references (source)	Dental composite materials for direct restorations. Vesna Miletic Springer,ebook,2018
Recommended books and references (scientific journals, reports…)	Sturdivant's Art and Science of operative dentistry 7th edition 2018
Electronic references, websites.	Using the Internet for the purpose of learning everything new in the field of dental materials.

Course Description

1. Course Name:
Paediatric Dentistry
2. Course Code:
DNT404
3. Semester / Year:
2024-2025
4. Description Preparation Date:
18/5/2025
5. Available Attendance Forms:
Attendance and Scientific Seminars
6. Number of Credit Hours (Total) / Number of Units (Total)
30h: Theory -60h Practical (Seminars) / 4 Units
7. Course administrator's name (mention all, if more than one name)
Lec. Dr. Suhair Wadeea Abbood **den.suhair.abbod@uoanbar.edu.iq**
8. Course Objectives

Course Objectives	• Teaching and guiding students on how to deal with children • clarifying diagnostic work plan using modern methods • Health survey, current visits and educational lectures
9. Teaching and Learning Strategies	
Strategy	- Weekly lectures to explain for students the fundamentals of paediatric dentistry - eruption of teeth, their shapes - types of caries and how to treat the carious teeth and preserve them - The fundamentals of teeth extraction and how can preserve the space and replace the missing teeth - In addition explain about different types of infections and how to manage them. - Support with illustrative methods. - self education

	− Educational clinics − Electronic classes

1. Course					
week	**hour**	**ILOs**	**Unit/Module orTopic Title**	**Teaching Method**	Assessment Method
1	**1**	How the teeth erupt, the importance of knowing the time of eruption	Eruption of teeth , normal eruption process	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
2	1	Understanding what will happen when teeth start to erupt	Teething and difficult eruption	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
3	1	Learning about the problem occupying eruption of teeth	Eruption haematoma , sequestrum ,ectopic eruption	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
4	**1**	Understanding teeth shedding and the factors effect on this process	Epstein pearls, Bohn nodules, Dental lamina cysts, Shedding of the primary teeth, Mechanism of resorption and shedding, Factors causes differences in time of eruption	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
5	1	Have an idea about how systemic diseases effect on teeth eruption	Systemic (disease) Factors which cause late eruption Deciduous Dentition Period, Ugly Duckling Stage	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
6	**1**	Learning about teeth morphology	Morphology of the primary teeth	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific

					seminars
7	**1**	Understanding the clinical appearances of teeth	Normal morphology of all primary teeth and their clinical consideration	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
8	1	Recognize the morphological variation of primary from permanent	Morphological differences between primary and permanent teeth	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
9	1	Know about the importance of teeth function	Functions of primary teeth	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
10	1	Identify caries, how the lesions form and their types	Dental caries; Definition and Classification	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
11	1	Recognise different types of caries	Rampant dental caries, Early childhood caries,	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
12	1	Understanding the meaning of sterilised restorative field	Restorative dentistry for children Isolation & maintenance of dry field and application of the rubber Dam	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
13	1	Learning about the differences in cavities design following teeth morphology	Morphological consideration ,cavity preparation Cavity preparation on primary teeth,	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
14	1	Know about materials use in restorative dentistry	Restorative materials used on pediatric dentistry	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
15	**1**	Know about materials use in restorative dentistry	Matrices & retainers	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars

16	**1**	Know about materials use in restorative dentistry	Chrome steel crowns, ART	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
17	**1**	How to treat carious lesions of various progression	Treatment of deep caries	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
18	**1**	How to treat carious lesions of various progression	Indirect pulp treatment	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
19	**1**	How to treat carious lesions of various progression	Vital pulp therapy pulpotomy	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
20	**1**	How to treat carious lesions of various progression	Non vital pulp therapy technique	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
21	**1**	Know about materials use in restorative dentistry	Reaction of pulp to various capping material	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
22	**1**	Learning about the pain and anaesthetic effect	Local anesthesia and pain control for children	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
23	**1**	Understanding different anaesthetic techniques	Anesthetizing mandibular and maxillary teeth and soft tissue	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
24	**1**	Know about the complication of anaesthesia	complications after a local anesthetic	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars

25	**1**	Understanding different anaesthetic techniques	supplemental injection techniques	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
26	**1**	Learning about teeth extraction for paediatric patients	Oral surgery for children, indication and contraindications for extraction of primary teeth,	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
27	**1**	Understanding different extraction techniques	technique for extraction of primary teeth, extraction complications	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
28	**1**	Know about the complication of extraction	postoperative extraction complications, radiographic survey of teeth extracted	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
29	**1**	Learning about space preservation following loss of primary teeth	Type of space maintainer(indication and contraindication	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars
30	**1**	Recognise different infectious conditions , their causes and treatments	Infections manifestation and management	Power point Lectures + scientific seminar	Daily, semester, and final exams - weekly evaluation of scientific seminars

طرق التقييم.

1	The first theoretical exam	20
2	The first practical exam	N/A
3	The second theoretical exam	15
4	The second practical exam	5
5	Final practical and theoretical exam	60

Learning and Teaching Resources	
1 - McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier Pediatric Dentistry Damile 3rd ed. 2009	Required textbooks (curricular books, if a
2 - Hand book of pediatric dentistry (Cameron) mosby/third edition/2008	Main references (source) 1 - Principles and practice of pedodontics /Arathi Rao Jaypee/second edition2008
3 - Text book of pediatric dentistry – Nikhil Marwa 2nd ed. 2009 New Delh	2 - Pediatric Dentistry Damile 3rd ed. 2009 3 - Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012 Recommended books and references (scientific journ reports
Using the Internet to learn everything new in the field of behavior management and	Electronic references, websi

Course Description

1. Course Name:
Oral Surgery
2. Course Code:
DNT501
3. Semester/Year:
Annually/Fifth year
4. Description Preparation Date:
5/6/2025
5. Available Attendance Forms:
Lectures and Clinical Practice
6. Number of Credit Hours (Total) / Number of Units (Total)
8/240/8
7. Course administrator's name (mention all, if more than one name)
Assist. Prof. Dr Mohammed Khidher Assist Prof. Dr. Sabah AbdulRasool Lect. Dr. Ahmed Jassam Mohammed

8. Course Objectives

Course Objectives	1. A student's ability to learn about surgery in general 2. A student's job and knowledge skills are available for oral surgery. 3. The student's knowledge of the diagnosis of symptoms and diseases in the mouth, face and jaws. 4. To inform the student of how to deal with persons with health disorders. 5. Study of general diseases related to dentistry and, in particular, oral surgery. 6. A student of complications that may result from oral surgery and treatment methods. 7. Mother-to-child treatment methods for oral and facial infections.

9. Teaching and Learning Strategies

Strategy	1. Electronic lectures. 2. Providing students with lectures. 3. Educational films. 4. PowerPoint. 5. Use of educational models. 6. Applied clinical applications

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	10	Understanding concepts, basics and application	Endodontic surgery	Lecture delivery using the PowerPoint system	Written exam and clinical
2	10	Understanding concepts, basics and application	Orofacial pain	Lecture delivery using the PowerPoint system	Written exam and clinical
3	10	Understanding concepts, basics and application	Benign cystic lesion of the oral cavity	Lecture delivery using the Power Point system	Written exam and clinical
4	10	Understanding concepts, basics and application	PRE-PROSTHETIC SURGERY	Lecture delivery using the Power Point system	Written exam and clinical
5	10	Understanding concepts, basics and application	DISEASES OF THE TEMPOROMANDIBULAR JOINT	Lecture delivery using the Power Point system	Written exam and clinical
6	10	Understanding concepts, basics and application	DENTAL IMPLANTS	Lecture delivery using the Power Point system	Written exam and clinical
7	10	Understanding concepts, basics and application	Facial injuries	Lecture delivery using the Power Point system	Written exam and clinical
8	10	Understanding concepts, basics and application	SURGICAL AIDS TO ORTHODONTICS.	Lecture delivery using the Power Point system	Written exam and clinical
9	10	Understanding concepts, basics and application	FIBRO-OSSEOUS LESIONS OF THE JAW	Lecture delivery using the Power Point system	Written exam and clinical
10	10	Understanding concepts, basics and application	Diseases of salivary glands	Lecture delivery using the Power Point system	Written exam and clinical
11	10	Understanding concepts, basics and application	ODONTOGENIC TUMORS OF THE JAW	Lecture delivery using the Power Point system	Written exam and clinical

12	10	Understanding concepts, basics and application	BENIGN TUMORS OF THE ORAL SOFT TISSUES	Lecture delivery using the Power Point system	Written exam and clinical
13	10	Understanding concepts, basics and application	Principles of differential diagnosis and biopsy in oral and maxillofacial surgery	Lecture delivery using the Power Point system	Written exam and clinical
14	10	Understanding concepts, basics and application	WHITE LESIONS AND PRE-CANCEROUS LESIONS OF THE ORAL CAVITY.	Lecture delivery using the Power Point system	Written exam and clinical
15	10	Understanding concepts, basics and application	CANCER OF THE ORAL CAVITY	Lecture delivery using the Power Point system	Written exam and clinical
16	10	Understanding concepts, basics and application	LAZER AND CRYO-SURGERY IN ORAL SURGERY	Lecture delivery using the Power Point system	Written exam and clinical
17	10	Understanding concepts, basics and application	Diagnostic imaging in oral and maxillofacial surgery	Lecture delivery using the Power Point system	Written exam and clinical
18	10	Understanding concepts, basics and application	FACIAL CIVIL AND WAR INJURIES IN THE MIDDLE 3rd OF THE FACE	Lecture delivery using the Power Point system	Written exam and clinical
19	10	Understanding concepts, basics and application	CIVIL AND WAR INJURIES IN THE MANDIBLE	Lecture delivery using the Power Point system	Written exam and clinical
20	10	Understanding concepts, basics and application	ORTHOGNATHIC SURGERY	Lecture delivery using the Power Point system	Written exam and clinical
21	10	Understanding concepts, basics and application	RECONSTRUCTION OF FACIAL INJURIES	Lecture delivery using the Power Point system	Written exam and clinical
22	10	Understanding concepts, basics and application	CRANIO-FACIAL DEFORMITIES.	Lecture delivery using the Power Point system	Written exam and clinical
23	10	Understanding concepts, basics and application	Complications of major surgery	Lecture delivery using the Power Point system	Written exam and clinical

11. Course evaluation

Quizzes and short exams, questions and discussions in the lecture, absences, and the final exam. Practical: class exam, activity, practical exams, clinical training exams.

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1. Oral & Maxillofacial surgery 2. AN OUTLINE OF ORAL SURGERY.PART
Main references (source)	1. Oral & Maxillofacial surgery 2. AN OUTLINE OF ORAL SURGERY.PART
Recommended books and references (scientific journals, reports…)	1. Oral & Maxillofacial surgery 2. AN OUTLINE OF ORAL SURGERY.PART
Electronic references, websites.	1. Oral & Maxillofacial surgery 2. AN OUTLINE OF ORAL SURGERY.PART

Course Description

1. Course Name:
Prosthetic
2. Course Code:
DNT506
3. Semester / Year:
2024-2025
4. Description Preparation Date:
10/4/2025
5. Available Attendance Forms:
Attendance and clinical practice
6. Number of Credit Hours (Total) / Number of Units (Total)
30h: Theory/90h clinical/8 Units
7. Course administrator's name (mention all, if more than one name)
Assist. Prof .Dr. Salah K. Abbas Email: den.salah.a@uoanbar.edu.iq

8. Course Objectives	
Course Objectives	Enabling students to obtain knowledge and understanding of the work of dentur The student learns the basics of this work. Enabling students to obtain knowled and how to deal with the patient without causing any harm to the patient. Enabl students to obtain knowledge and understanding of each subject and what is the b method of work through comprehensive knowledge of the anatomical signs that h stabilise the denture.
9. Teaching and Learning Strategies	
Strategy	Theoretical lectures inside the classroom. Student groups Clinic activities E-learning on campus (use of the Internet)

10. Course Structure					
Week	**Hours**	**ILOs**	**Unit/Module orTopic Title**	**Teaching Method**	Assessment Method
1	4	Occlusion • Articulation • Centric relation • Centric occlusion • Occlusal balance • Occlusal harmony • Occlusal interference • Maximum intercuspation Requirements of ideal complete denture occlusion Objectives of occlusion in complete denture • Requirement of complete denture occlusion • Types of occlusion • Balance occlusion Advantages of balance occlusion • Factors affecting the balanced occlusion (laws of articulation) Condylar	Occlusion in Complete Denture	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

		guidance Incisal guidance Plane of occlusion The compensating curve Cuspal angulations • Interaction of the five factor • Lingualized occlusion • Monoplane or occlusion (neutrocentric) • Types of occlusal scheme retention, stability and support of complete denture			
2	4		Occlusion in Complete Denture (Continue	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
3	4	Retention • Factors affect in the retention of CD Mechanical factors Muscular factor • Denture surface Occlusalsurface Polished surface Impression surface • Stability Various factors that affecting the stability • Support • Nature of the	Retention, Stability And Support	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

		Supporting tissue • Mandibular anatomical consideration • Mandibular residual ridge • Maxillary anatomic consideration • Factors that influence the form and size of the supporting bone			
4	4		Retention, Stability And Support (Continue	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
5	4	Classification of Post-Insertion Denture problems Complaints about comfort of the denture Complaints about function of the denture Complaints about esthetics Complaints about phonetics • Complaints about comfort of the denture Sore spot Burning sensation Redness Pain in TMJ Tongue and cheek biting Swallowing &	Post Insertion Problems	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

		sore throat Nausea and gagging Clicking of teeth Fatigue of the muscles of mastication • Complaints about function of the denture Loose denture (poor retention) Unstable denture • Complaints about esthetics • Complaints about phonetics • Oral mucosal Lesions induced by removable dentures • Causes of Mucosal Irritation • Types of these lesions Denture stomatitis Angular Cheilitis Flabby ridge Denture irritation hyperplasia Traumatic ulcer Burning Mouth Syndrome Hypersensitivity			
6	4		Post Insertion Problems (Continue	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

7	4	Changes occurred required Long term recall appointments Some Clinical Problems and Solutions associated with complete denture Problems of reduced salivary flow Aetiology of reduced salivary flow Management of dry mouth Hard and soft materials for modifying the impression surface of dentures Other complications Flabby ridge Denture breakages Debonding of teeth Gagging reflex (retching) Burning mouth syndrome Disturbance of speech	Complications Of Complete Denture	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
8	4		Complications Of Complete Denture (Continue	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
9	4	Introduction, Definition,	Immediate Denture	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

		Indications, Contraindications, Advantages, Disadvantages Types of immediate dentures Explanation to the Patient Concerning Immediate Dentures Diagnostic steps, Impression techniques, Jaw relations record, Try–in, Cast trimming, Waxing and flasking, Surgical splints, Setting of teeth, Processing and finishing, Insertion Post–operative care and instructions			
10	4		Immediate Denture (Continue	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
11	4	Development of the classification system Diagnostic Criteria Integration of Diagnostic Findings Diagnostic Classification of Complete	Classification system for completely edentulous patients	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

		Edentulism Reasonsfor a Classification System Features govern classes differentiation from each other Guidelinesfor Use of the Complete Edentulism Classification System Bone height–mandible only Residual ridge morphology–maxilla only Muscle Attachments: Mandible only Maxillomandibular Relationship Integration of Diagnostic Findings Arrangement of artificial teeth in abnormal jaw relations Arrangement of anterior teeth in maxillary protrusion Arrangement of artificial teeth in abnormal jaw relations Arrangement of			

		anterior teeth in mandibular protrusion			
12	4		Classification system for completely edentulous patients (Continue	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
13	4	Posterior palatal seal area Anatomical and Physiological Considerations for Posterior Palatal Seal Methods of location of anterior vibrating line (AVL) Classification of soft palate Designs of the posterior palatal seal Methods or techniques of recording posterior palatal Seal area Error in recording of posterior palatal seal	Posterior palatal seal area	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
14	4	Maxillary complete denture opposing by complete mandibular dentition • Techniques used to determine	Single CD	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

		occlusal modifications prior to denture construction • Upper complete denture opposing by mandibular partial denture • Complications of single CD Combination Syndrome and Associated Changes (Kelly's Syndrome) Setting of teeth and occlusal concept fracture of Denture Wear of Teeth • Mandibular single denture • Stepsfor Single Denture construction			
15	4		Single CD ((Continue	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
16	4	Definitions Factorsinfluencing Aging Goal of Geriatric dentistry Objectives of Geriatric dentistry Psychological disorders of elderly patients generally seen by prosthodontist Factorsthat	Geriatric dentistry	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

		influence the patient's response Seven basic personality traits will be considered in the light of their influence on success in dentistry Systemic Diseases and its dental relation Geriatric dentistry related to prosthetic part 2			
17	4	Objectives of maxillofacial prosthesis Maxillofacial Classification Extra Oral Appliances Intra Oral Appliances Retentive Aids in Maxillofacial Prosthodontics Steps of maxillofacial prostheses constructio	Maxillofacial Prosthesis	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
18	4		Maxillofacial Prosthesis (Continue	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
19	4	Structural characteristics of alveolar bone • Pathology	Residual Ridge resorption	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

		of RRR • Pathogenesis of RRR • Direction of bone resorption • Patterns of bone resorption • Consequences of RRR • Etiology of RRR • RRR is a multi-factorial, biomechanical disease Metabolic factors Dietary Factors • Osteoporosis and residual ridge modeling • Prosthetic factors • Treatment and Prevention of RRR			
20	4		Residual Ridge resorption (Continue	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
21	4	implant classification Classification of endosseous implants according to their design Classification of endosseous implants according to their	Dental implantology	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

		material Classification of endosseous implants according to surface characteristics Classification of endosseous implants according to the insertion technique Classification of endosseous implants according to surgical stages 6.classification of endosseous implants according to the time of installation 7.classification of endosseous implants according to time of prosthetic loading • Factors affecting healing Surgical technique Premature loading Surgical fit Bone quality and quantity Physical condition of the			

		patient • Components of branemark implant system • Prosthetic options in implant dentistry • Overdenture (implant supported overdenture) • Basic sequence of procedures in implants treatment Radiographic stent • Implantsuccess and survival • Indications of implant denture • Contradictions of implant denture • Characteristics of the osseointegrated implant • Basic guiding factors of osseointegration • Occlusion in implant–supported prostheses • Occlusal form and scheme			
22	4		Dental implantology (Continue	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

23	4	Definition Factors Influencing the Appearance of Dentures Steps in achieving esthetic complete denture Additional clinical and technical considerations in anterior tooth selection patient preferences Gingival Contour Denture base factors Characterization Final Decision for Esthetics	Esthetics in CD	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
24	4	osseointegration Biomaterials Selection of Biomedical Materials Classification of implant materials Types of surface modification: Surface design Ceramic coating Super structure GuidedBone Regeneration	Characteristics Of Ideal Materials For Dental Implant	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
25	4	Definition • Aims • Indication • Technique for denture	Copy denture	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

		duplication • Laboratory procedure for denture duplication • Denture duplication technique The silicon putty The agar– Agar Modification/ Further application • Problem Areas in Fabrication and Solutions			
26	4	The important goals of overdenture Indications of Overdenture. Contraindications of Overdenture Advantages of overdenture prosthesis Disadvantage of overdenture Overdenture Classification Sequence of Treatment of Patient Who Need an Overdenture Impressions of the Abutment Teeth Denture Base designing	Over Denture	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

		Implantsupported overdenture Type of implant overdenture Indication of Implant supported overdenture Contraindication Advantages of implant supported over denture Disadvantages of implant supported over denture			
27	4		Over Denture (Continue	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
28	4	Definitions Neutral Zone Concept Objectives of Neutral zone Techniques Indications of Neutral zone Techniques Recording neutral zone in final impression stage Recording neutral zone in jaw relation visit Recording neutral zone in try in stage Recording neutral zone in finished denture Limitation for the	Neutral zone in CD	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

		success of neutral zone impression technique			
29	4	Function of attachment • Factors affecting attachment selection • Retentive Mechanism • Classification of Attachments • Types of attachments • Overdenture care	Attachments in over denture	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic
30	4		Attachmentsin over denture (Continue	Lectures + clinic	Daily, semester, and final exams = weekly evaluation in the clinic

11. Course Evaluation

1	The first theoretical exam	12
2	The first practical exam	8
3	The second theoretical exam	12
4	The second practical exam	8
5	Final practical and theoretical exam	60

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Book of complete denture
Main references (source)	complete denture
Recommended books and references (scientific journ reports…)	Monthly scientific journals, in addition to reports that work periodically to improve the properties of materials
Electronic references, websites.	Using the Internet for the purpose of learning everything new in the field of dental materials

Course Description

1. Course Name:
Pedodontic
2. Course Code:
DNT504
3. Semester / Year:
2024-2025
4. Description Preparation Date:
20/5/2025
5. Available Attendance Forms:
Attendance and clinical practice
6. Number of Credit Hours (Total) / Number of Units (Total)
30h: Theory -75h clinical
7. Course administrator's name (mention all, if more than one name)
Assist.prof.lamia Ebrahem **den.lamia.ibrahem@uoanbar.edu.iq**
8. Course Objectives

Course Objectives	• - Teaching and training students on how to deal with children • Complete diagnostic work plan using modern methods • Health survey, current visits and educational lectures
9. Teaching and Learning Strategies	
Strategy	- Weekly lectures to teach students how to deal with healthy children and disable ch where students are taught and taught ways to confront and solve problems in educatio clinics designated for that, with illustrative methods. . - self education - Educational clinics - Electronic classes

1. Course					
Assessment Method	Teaching Method	Unit/Module or Topic Title	ILOs	hour	week
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic	Advantages of treatment planning, The diagnostic methods, Components of oral examination and diagnosis	Diagnosis and treatment planning	**1**	**1**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic	Clinical examination , Radio graphic examination	Preliminary medical and dental history	1	2
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic	Child development, Major area of development, Variables influencing children's dental behaviors ,classification of children's behavior	Art and science of behavior management	1	**3**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic	, Purpose, Classifying children, s cooperative behavior	Non pharmacologic management of patient behavior		**4**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic	Degree of sedation, Indications for pharmacological behavior management technique, Pre-treatment documentation and assessment,	Pharmacologic management of patient behavior	1	**5**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic	Conscious sedation, Routes of drug administration, Enteral sedation ,Rectal route, Intra muscular route, Intravenous route, Inhalation, Drugs and agents used for sedation, General anesthesia	Sedation in pediatric dentistry		**6**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		management of traumatic injuries to the teeth and supporting tissues of children,	**1**	**7**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		classification of injuries to the anterior teeth of children classification methods of clinical examination	1	**8**

Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Traumatic injuries of the primary teeth and its effect on permanent teeth	1	**9**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Treatment of injury of permanent teeth, emergency treatment, temporary restoration 1 152 of fractured teeth	1	**10**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Advances in Pediatric Dentistry: Advances in diagnostic aids, Advances in cavity preparation methods	1	**11**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Advances in endodontics, Advances in local anesthesia	1	**12**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Advances in restorative materials, Advances in surgical procedures, miscellaneous	1	**13**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic	:	Acquired disturbances of oral structures	1	**14**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Developmental disturbances of oral structures	**1**	**15**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Gingivitis and periodontal disease in children	**1**	**16**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Acute candidacies (thrush), acute bacterial infection, chronic nonspecific gingivitis, gingival diseases modified by systemic factors.	**1**	**17**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Gingival lesions of genetic origin, ascorbic acid deficiency gingivitis.	**1**	**18**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Periodontal diseases in children, early onset periodontitis, prepubertal periodontitis, localized juvenile periodontitis.	**1**	**19**
Daily, semester, and final exams = weekly	Lectures + clinic		Papillon – Lefevere syndrome, gingival	**1**	**20**

evaluation in the clinic			recession, extrinsic stains and deposits on teeth		
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Management of space problems, planning for space maintenance, loss of primary incisors	**1**	**21**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Space Maintenance for the First and Second Primary Molar and the Primary Canine Area, premature loss of second primary molar	**1**	**22**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Loss of the Second Primary Molar Before Eruption of the First Permanent Molar, Areas of Multiple Primary Molar Loss	**1**	**23**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic	deciduous phase, mixed dentition	Development of dental arch occlusion;	**1**	**24**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic	Nance analysis, Moyers mixed dentition analysis, Tanaka and Johnston analysis, Bolton analysis.	Arch length analysis;	**1**	**25**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic	first dental visit, Radiographic examination, Preventive dentistry, Management of a child with special care needs during dental treatment , immobilization,	Dental problems of the disabled child	**1**	**26**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Mental disability, Down syndrome, Intellectual disability, Learning disability	**1**	**27**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Fragile X syndrome, cerebral palsy, autism,	**1**	**28**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		Respiratory diseases, hearing loss, visual impairment,	**1**	**29**
Daily, semester, and final exams = weekly evaluation in the clinic	Lectures + clinic		, epilepsy. Heart disease, hemophilia, ,sickle cell anemia, viral hepatitis, AIDS, children with systemic diseases	**1**	**30**

طرق التقييم.

1	The first theoretical exam	12
2	The first practical exam	8
3	The second theoretical exam	12
4	The second practical exam	8
5	Final practical and theoretical exam	60

Learning and Teaching Resources	
MCDonald and Avery Dentistry for the Child and Adolescent,9th Edition **Authors: Jeffrey Dean Ralph McDonald David Avery Ralph McDonald David Avery Jeffrey Dean David Avery Ralph McDonald** **Published Date: 8th April 2010**	Required textbooks (curricular books, if a
Textbook of Pediatric Dentistry 3rd Edition	Main references (sou
	Recommended books and referen (scientific journals, reports
Using the Internet to learn everything new in the field of behavior management and	Electronic references, websi

Course Description

1. Course Name:
periodontology
2. Course Code:
DNT507
3. Semester / Year:
2 semester/fifth stage.
4. Description Preparation Date:
9/5/2025
5. Available Attendance Forms:
weekly
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hr theory/90 practical.
7. Course administrator's name (mention all, if more than one name)
Assist. Prof. Dr. Ahmed Maki AbdulRazag. Email: den.ahmed.maki@uoanbar.edu.iq

8. Course Objectives	
Course Objectives	For knowing disease distribution and management
9. Teaching and Learning Strategies	
Strategy	-Knowledge and understanding -Pharmaceutical and surgical treatment of gum diseases.

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	Examination and treatment	Periodontal tissue components	Lecture(power point}	Exam &seminar
2	1	Examination and treatment	Introduction to periodontology	Lecture(power point}	Exam &seminar
3	1	Examination and treatment	Control of microbial growth	Lecture(power point}	Exam &seminar
4	1	Examination and treatment	Advances in periodontal management	Lecture(power point}	Exam &seminar
5	1	Examination and treatment	Gingival and periodontal pocket	Lecture(power point}	Exam &seminar
6	1	Examination and treatment	Pathogenesis of periodontal disease	Lecture(power point}	Exam &seminar

7	1	Examination and treatment	Tooth mobility	Lecture(power point}	Exam &seminar
8	1	Examination and treatment	Furcation involvement	Lecture(power point}	Exam &seminar
9	1	Examination and treatment	Treatment of furcation involvement	Lecture(power point}	Exam &seminar
10	1	Examination and treatment	Epidemiology of periodontal disease	Lecture(power point}	Exam &seminar
11	1	Examination and treatment	seminars	Lecture(power point}	Exam &seminar
12	1	Examination and treatment	seminars	Lecture(power point}	Exam &seminar
13	1	Examination and treatment	seminars	Lecture(power point}	Exam &seminar
14	1	Examination and treatment	seminars	Lecture(power point}	Exam &seminar
15	1	Examination and treatment	Exam& seminars	Lecture(power point}	Exam &seminar
16	1	Examination and treatment	The relation of periodontics with different dental disciplines	Lecture(power point}	Exam &seminar
17	1	Examination and treatment	Periodontal surgery	Lecture(power point}	Exam &seminar
18	1	Examination and treatment	New attachment and guided tissue regeneration (GTR) The original WIDMAN flap	Lecture(power point}	Exam &seminar

19	1	Examination and treatment	Phases of wound healing	Lecture(power point}	Exam &seminar
20	1	Examination and treatment	Dental implant	Lecture(power point}	Exam &seminar
21	1	Examination and treatment	Gingival crevicular fluid (GCF)	Lecture(power point}	Exam &seminar
22	1	Examination and treatment	Dentine hypersensitivity (DH)	Lecture(power point}	Exam &seminar
23	1	Examination and treatment	Occlusion	Lecture(power point}	Exam &seminar
24	1	Examination and treatment	Laser and its application in dentistry	Lecture(power point}	Exam &seminar
25	1	Examination and treatment	seminar	Lecture(power point}	Exam &seminar
26	1	Examination and treatment	seminar	Lecture(power point}	Exam &seminar
27	1	Examination and treatment	seminar	Lecture(power point}	Exam &seminar
28	1	Examination and treatment	seminar	Lecture(power point}	Exam &seminar
29	1	Examination and treatment	seminar	Lecture(power point}	Exam &seminar

30	1		Exam & seminar	Lecture(power point}	
31					

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Text book of periodontology and implantology
Main references (source)	Text book of periodontology and implantology
Recommended books and references (scientific journals, reports…)	Text book of periodontology and implantology
Electronic references, websites.	Text book of periodontology and implantology

Course Description

1. Course Name:	
Operative Dentistry	
2. Course Code:	
DNT505	
3. Semester / Year:	
2024-2025	
4. Description Preparation Date:	
6/5/2025	
5. Available Attendance Forms:	
Attendance and clinical practice	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60/30/5	
7. Course administrator's name (mention all, if more than one name)	
Lecturer Ayad M. AL-kadhi Email:den.ayad.mahmod@uoanbar.edu.iq, Assist. Prof. Farid Numaan Ghiab	
8. Course Objectives	
Course Objectives	Training the student on how to examine patients and diagnose the condition with appro modern diagnostic methods, then prepare a treatment plan, then begin treating the condi in a correct scientific manner, and use modern materials and methods in treating root fillir crowns, and bridges by giving theoretical lectures while working in clinics.
9. Teaching and Learning Strategies	
Strategy	A- Cognitive objectives A-1: Training the student on how to examine and diagnose medical conditions. A-2: Giving important information and treatment steps. A-3 Giving instructions and following up on root filling operations. A-4 Giving instructions and following up on bridge and crown operations B- Skills objectives for the course B: 1 Describe the tools used to prepare canals for root fillings. B: 2 Describe the tools used in the steps to prepare teeth for crowns and bridges. B - 3 Teach the student how to use them and follow him during the work

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1h	1. Recognise the diagnosis of and treatment planning for pulpal and periapical conditions Understand the importance of the medical and dental history to ndodontic diagnosis..	Endodontic diagnosis	A theoretical lecture using PowerPoint	Short, semester, and final exams
2	1h	1. be able to understand all the methods to control and manage pain in endodontic patients. Management of dental pain during and after endodontic treatment.	Pain control in Endodontics	A theoretical lecture using Power Point	Short, semester, and final exams
3	1h	1. Describe the importance of radiographs in endodontic diagnosis, treatment, and postoperative evaluation. 2. Discuss special applications of radiography to endodontics..	Endodontic radiography	A theoretical lecture using Power Point	Short, semester, and final exams
4	1h	1. The importance of accurately measuring the length of the root canal. 2. Different methods	Working length Determination	A theoretical lecture using Power Point	Short, semester, and final exams

		and techniques for determining the working length, such as using electronic apex locators or radiographs.			
5	1h	1. Understand the microbial etiology of apical periodontitis. 2. Describe the routes of entry of microorganisms to the pulp and periradicular tissues. 3. Recognize the different types of endodontic infections and the main microbial species involved in each one. 4. Understand the ecology of the endodontic microbiota and the features of the endodontic ecosystem.	Microbiology	A theoretical lecture using Power Point	Short, semester, and final exams
6	1h	=	Microbiology	A theoretical lecture using Power Point	Short, semester, and final exams
7	1h	1. Describe the basic design (longitudinal, cross-sectional, and tip configuration) of the more common canal preparation instruments and their mode of use. 2. Explain the basis for sizing and taper (standardization) of hand-operated instruments.	Intracanal instruments	A theoretical lecture using Power Point	Short, semester, and final exams

		3.Describe and differentiate between conventional files and files of alternative designs. 4.Define the differences between stainless steel and nickel-titanium intracanal instruments, including physical properties and usage characteristics			
8	1h	1. Describe and differentiate between different rotary system 2. Describe the action and use of rotary instruments for both cleaning and shaping canals.	Intracanal instruments	A theoretical lecture using Power Point	Short, semester, and final exams
9	1h	1. Recognize the clinical criteria that determine when to obturate. 2. List the criteria for the ideal obturating material. 3. Identify the core obturating materials most commonly used and list their constituents and physical properties., the advantages and disadvantages of each core material.	Obturation of the root canal system	A theoretical lecture using PowerPoint	Short, semester, and final exams
10	1h	1. Describe the lateral compaction technique. 2. Describe the vertical compaction technique.	Obturation of the root canal system	A theoretical lecture using PowerPoint	Short, semester, and final exams

		3. Describe briefly other techniques used for obturation, including thermoplasticization, thermocompaction, paste injection, core carrier systems, and sectional obturation. 5. .17List criteria for the ideal sealer.			
11	1h	1. Recognize the incidence of flare-ups. 2. Describe appropriate diagnostic procedures for endodontic emergencies. 3. Describe the initial patient contact and patient management issues.	Endodontic Emergency Treatment	A theoretical lecture using Power Point	Short, semester, and final exams
12	1h	1. Describe the requirements of an adequate restoration. 2. Identify restorative options before root canal treatment is started. 3. Discuss the advantages and disadvantages of direct and indirect restorations. 4. Outline indications for post placement in anterior and posterior teeth. 5. Describe common post systems and the advantages and disadvantages of each. 6. Describe core	Restoration of Endodontically Treated Teeth	A theoretical lecture using Power Point	Short, semester, and final exams

		materials and their placement.			
13		1. Delineate the anatomic pathways of communication between the dental pulp and the periradicular tissues. 2. Describe the effects of pulpal diseases and endodontic procedures on the periodontium. 3. Describe the effects of periodontal disease and procedures on the dental pulp. 4. Identify the clinical and radiographic findings that are important to identify the origin of periodontal pockets. 5. Know the clinical classification of endodontic–periodontal diseases.	Endodontic–Periodontal Relations	A theoretical lecture using Power Point	Short, semester, and final exams
14	1h	1. Identify the causes and nature of tooth discoloration. 2 Select the bleaching agent and technique according to the cause of discoloration. 3. Describe each step of the internal “walking bleach” technique. 4. Recognize the potential adverse effects of bleaching and discuss means of prevention.	Tooth discoloration and bleaching.	A theoretical lecture using Power Point	Short, semester, and final exams

15	1h	=	Tooth discoloration and bleaching.	A theoretical lecture using Power Point	Short, semester, and final exams
16	1h	Showing terminology and definition of fixed partial dentures	Terminology, definition of fixed partial denture , Effect of Tooth Loss, Comparism with R.P.D	A theoretical lecture using Power Point	Short, semester, and final exams
17		Demonstrate principles of bridge construction	Types of Fixed Bridge including Basic Bridge Design	A theoretical lecture using Power Point	Short, semester, and final exams
18		Describe components of fixed bridge	Components of Fixed Bridge; □□Retainers.----------	A theoretical lecture using Power Point	Short, semester, and final exams
19		Describe pontics and retainers	Components of Fixed Bridge; □□Pontics □□Connectors.----------	A theoretical lecture using Power Point	Short, semester, and final exams
20		Demonstrate factors in bridge construction	□□Clinical Consideration for Bridge Construction.- _Abutment Tooth(evaluation and selection) _Crown/Root Ratio. _Splinting of teeth. _Patient Occlusal Status. _General Factors.	A theoretical lecture using Power Point	Short, semester, and final exams
21		Describe bridge design	□□Clinical Situations affecting Bridge Design; □□(Post. Tilted Abutments, Span Length, Pier Abut., Arch 1	A theoretical lecture using Power Point	Short, semester, and final exams

			175 Curvature)		
22		Describe different types of impression materials and impression techniques	Diagnosis And Treatment Plan. a. Intra-oral Examination. b. X-Rays Examination. c. Diagnostic Cast Examination.	A theoretical lecture using Power Point	Short, semester, and final exams
23		Describe different types of impression materials and impression techniques	Gingival retraction and impression(techniques)and impression Disinfection	A theoretical lecture using Power Point	Short, semester, and final exams
24		Demonstrate temporary restoration, their types and fabrication	provisional Restoration , Oclussion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registeration, and Articulation	A theoretical lecture using Power Point	Short, semester, and final exams
25		Demonstrate temporary restoration, their types and fabrication	provisional Restoration , Oclussion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registration, and Articulation	A theoretical lecture using Power Point	Short, semester, and final exams
26		Describe the steps of the try-in procedure	Try-in and Shade Selection (Colour dimensions Hue, Chroma, and Value).	A theoretical lecture using PowerPoint	Short, semester, and final exams
27		Demonstrate the different types of	□□Final Cementation of	A theoretical lecture using PowerPoint	Short, semester, and final exams

		cements used in fixed restoration	F.P.Ds.(Techniques)		
28		Demonstrate the types and causes of crown and bridge failures	Failure in Fixed Prosthodontics.	A theoretical lecture using Power Point	Short, semester, and final exams
29		Describe the uses of ceramic as a fixed restoration in dentistry	Porcelain in Fixed Prosthodontics (Current Ceramic).	A theoretical lecture using Power Point	Short, semester, and final exams
30		Describe different types and indications of resin bonded bridge	Resin bonded bridge	A theoretical lecture using Power Point	Short, semester, and final exams

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Cohens pathways of the pulp Contemporary Fixed Prosthodontics
Main references (source)	Cohens pathways of the pulp Contemporary Fixed Prosthodontics
Recommended books and references (scientific journals, reports…)	Cohens pathways of the pulp Contemporary Fixed Prosthodontics
Electronic references, websites.	Cohens pathways of the pulp Contemporary Fixed Prosthodontics

Course Name: orthodontics for 5th grade
Course Code: DNT503
Semester / Year: 2025-2025
Description Preparation Date: 2025/5/18
Available Attendance Forms: Attendance in the classroom for the theoretical subject
Number of Credit Hours (Total) / Number of Units (Total): 30 hours/60 credits
Course administrator's name (mention all, if more than one name)
Prof. Dr. Natheer AbdulMajeed Assist. Prof. Zena Hikmat

Course Objectives

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

Teaching and Learning Strategies

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

Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2	2		Orthodontic diagnosis and :treatment planning a. Personal data b. Clinical examination i. General body stature ii. Face examination in 3 dimensions iii. Skeletal examination iv. Soft tissue examination v. Occlusion (classification, midline, overjet and overbite) vi. Dentition (teeth number, position, dental age, wear, cracks and white spots) vii. Temporomandibular joint		Daily, monthly, semi-annu and final exams
4	2		c. Diagnostic aids i. orthopantomography (development, advantages,		Daily, monthly, semi-annual and final exams

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

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

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

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

Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	An Introduction to Orthodontics 5th Edition Simon J. Littlewood and Laura Mitchell 2019. Orthodontics: Principles and Practice: Principles a Practice 2nd ed. Edition Phulari 2017
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description

1. Course Name:
oral medicine
2. Course Code:
DNT502
3. Semester / Year: 2 semesters/fifth stage.
2024–2025
4. Description Preparation Date:
9/5/2025
5. Available Attendance Forms:
weekly
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hr theory/120 hr. practical.
7. Course administrator's name (mention all, if more than one name)
Assist. Prof. Raida.N.Hamid email: den.rnh.tiba@uoanbar.edu.iq den.shima.h@uoanbar.edu.iq Assist. Prof. Dr.Shasima. H. Mudher email: den.rehab.faisal@uoanbar.edu.iq, Assisat. Prof. Dr. Rehab. F. Ahmed. email:den.widad.jabber@uoanbar.edu.iq. Email: Assist Prof. Dr. Widad Farhan Jabber Lect. Shakir M. Ali. Email: den.shakir.mahmod@uoanbar.edu.iq, Lect. Dr. Aws Waleed Abbass
8. Course Objectives

Course Objective	-Graduating dentists are capable of examining and diagnosing patients, especially regarding non-dental diseases. Study of ulcers, pigmentation, and diseases that affect the inside and around the mouth. Study modern examination and diagnosis methods.
9. Teaching and Learning Strategies	
Strategy	-Knowledge and understanding. -How to use modern methods of diagnosis.

10. Course Structure					
Week	**Hours**	**ILOs**	**Unit/Module or Topic Title**	**Teaching Method**	Assessment Method
1	1	Examination and diagnosis	The principles of oral diagnosis Clinical examinations 2 2	Lecture{power point)	Exam & seminar
2	1	Examination and diagnosis	The principles of oral diagnosis Clinical examinations 2 2	Lecture{power point)	Exam & seminar
3	1	Examination and diagnosis	Laboratory investigations in dentistry	Lecture{power point)	Exam & seminar
4	1	Examination and diagnosis	Laboratory investigations in dentistry	Lecture{power point)	Exam & seminar
5	1	Examination and diagnosis	orofacial pain	Lecture{power point)	Exam & seminar
6	1	Examination and diagnosis	orofacial pain	Lecture{power point)	Exam & seminar
7	1	Examination and diagnosis	T.M.J	Lecture{power point)	Exam & seminar
8	1	Examination and diagnosis	T.M.J	Lecture{power point)	Exam & seminar
9	1	Examination and diagnosis	Oral ulceration and vesiculo-bullous lesions	Lecture{power point)	Exam & seminar
10	1	Examination and diagnosis	Oral ulceration and vesiculo-bullous lesions	Lecture{power point)	Exam & seminar
11	1	Examination	Oral	Lecture{power	Exam & seminar

		and diagnosis	ulceration and vesiculo-bullous lesions	point)	
12	1	Examination and diagnosis	White & red lesions	Lecture{power point)	Exam & seminar
13	1	Examination and diagnosis	White & red lesions	Lecture{power point)	Exam & seminar
14	1	Examination and diagnosis	Early detection of oral cancer	Lecture{power point)	Exam & seminar
15	1	Examination and diagnosis	Early detection of oral cancer	Lecture (power point)	Exam & seminar
16	1	Examination and diagnosis	Pigmented oral lesions	Lecture (power point)	Exam & seminar
17	1	Examination and diagnosis	Pigmented oral lesions	Lecture (power point)	Exam & seminar
18	1	Examination and diagnosis	Benign, Premalignant and malignant lesions of the oral cavity	Lecture{power point)	Exam & seminar
19	1	Examination and diagnosis	Benign, Premalignant and malignant lesions of the oral cavity	Lecture (PowerPoint)	Exam & seminar
20	1	Examination and diagnosis	Benign, Premalignant and malignant lesions of the oral cavity	Lecture (PowerPoint)	Exam & seminar
21	1	Examination and diagnosis	Neuromuscular disorder	Lecture (PowerPoint)	Exam & seminar
22	1	Examination and diagnosis	Neuromuscular disorder	Lecture (PowerPoint)	Exam & seminar
23	1	Examination and diagnosis	Salivary gland diseases	Lecture{PowerPoint)	Exam & seminar
24	1	Examination and diagnosis	Salivary gland diseases	Lecture{PowerPoint)	Exam & seminar
25	1	Examination and diagnosis	Autoimmune diseases	Lecture{power point)	Exam & seminar

26	1	Examination and diagnosis	Autoimmune diseases	Lecture{power point)	Exam & seminar
27	1	Examination and diagnosis	Autoimmune diseases	Lecture{power point)	Exam & seminar
28	1	Examination and diagnosis	Oral manifestation of allergic reaction	Lecture{power point)	Exam & seminar
29	1	Examination and diagnosis	Oral manifestation of allergic reaction	Lecture{power point)	Exam & seminar
30			Exam.		Exam & seminar

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular boo if any)	Burket's Oral Medicine 13th Edition 2021
Main references (source)	TEXTBOOK OF ORAL MEDICINE, 2nd edition, 2010
Recommended books and referenc (scientific journals, reports…)	Burket's Oral Medicine 13th Edition 2021
Electronic references, websites.	TEXTBOOK OF ORAL MEDICINE, 2 edition, 2010

Course Description

1. Course Name:
Prevention
2. Course Code:
DNT 508
3. Semester / Year:
2025-2026
4. Description Preparation Date:
18/5/2025
5. Available Attendance Forms:
Attendance and clinical practice
6. Number of Credit Hours (Total) / Number of Units (Total)
Theoretical hours are 30 hours Practical hours: 37.5 hours Number of total units 4
7. Course administrator's name (mention all, if more than one name)
Teacher: Mohammed ismail Abdullah E.mail: den.mohammed.esmail@uoanbar.edu.iq
8. Course Objectives

Course Objectives	**Identify and understand the causes of various oral diseases such as caries, gingivitis, and cavities.** **• Identify effective ways to prevent oral diseases and encourage good oral health through awareness and education.** **• Study and evaluate health behaviors that may affect oral and dental health, such as oral hygiene and proper nutrition.** **• Develop clinical oral examination skills and use the necessary tools and techniques to provide preventive care to patients.** **• Enhance clinical skills in applying prevention techniques such as fluoride applicati dental sealing, and periodic dental cleaning.**
9. Teaching and Learning Strategies	
Strategy	1- **Active Learning:** Encouraging students to participate in interact learning activities such as group discussions, solving clinical cases, a conducting practical experiments. This can enhance their understand and application of preventive concepts in clinical work contexts 2- **Cooperative Learning:** Encouraging teamwork and cooperation among students, where knowledge and experiences are shared and problems are solved together. This approach can help build students'

	social and technical skills. **3- Project Learning:** Engaging students in practical projects related oral health prevention, such as designing health awareness campaig in the community, or conducting scientific research on specific topics preventive dentistry. **4- Problem-based learning:** Presenting real-world scenarios and problems that students must solve using the knowledge and skills the have acquired. This promotes critical thinking and practical applicatior Clinical Simulation: Using simulation of clinical operations and hands-on prevention and treatment skills, giving students the opportunity to apply theoretical concepts in an environment similar to real work. **5-Using technology in learning:** Using applications, interact computer programs, multimedia, and virtual simulations to enhar learning and training processes in preventive dentistry.

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	preventive dentistry	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
2	1	Dental caries development	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
3	1	Diagnosis of dental caries	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
4	1	Fluorides in Dentistry	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
5	1	Fluoride in prevention and controlling dental caries	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**

6	1	Topical Fluorides / professional	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
7	1	Topical Fluoride Self−Applied Fluoride	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
8	1	Fluoride Toxicity	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
9	1	Pit and fissure sealants	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
10	1	New approach in restorative dentistry	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
11	1	Oral microbial	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
12	1	Saliva and host defense mechanism	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
13	1	Caries risk assessment	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
14	1	Infections control	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
15	1	Oral hygiene measures (mechanical plaque control	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
16	1	Chemical plaque control agents	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
17	1	Diet and dental caries	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
18	1	Non	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**

		Cariogenic Sugar Substitutes			
19	1	Dietary counseling in dental practice	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
20	1	Nutrition and dental health	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
21	1	Prevention of periodontal disease and oral cancer by nutrition	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
22	1	Probiotics and dental health	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
23	1	Diagnosis and prevention of dental erosion	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
24	1	Prevention of malocclusio n	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
25	1	Preventive measure for population with developmental disabilities	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
26	1	Geriatric dentistry	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
27	1	prevention of peri–	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**

		implant diseases			
28	1	Ozone in the preventive of dental disease	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
29	1	preventive treatment strategies for medically compromised	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
30	1	protection of the dentition	Preventive dentistry	A theoretical lecture using Power Point	**Short, semester, and final exams**
31					

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Comprehensive preventive dentistry (2012) (book).
Main references (source)	• Primary preventive dentistry (2014) (book).
Recommended books and references (scientific journa reports…)	Dental caries, principles and management (2016) (book)• Textbook of clinical cariology (1996) (book).
Electronic references, websites.	