

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



Academic Program and Course Description Form

2025 – 2026

Ministry of Higher Education &
Scientific Rresearch

Babylon University/ College of
Dentistry



وزارة التعليم العالي والبحث العلمي

جامعة بابل

كلية طب الأسنان

ACADEMIC PROGRAM AND COURSE DESCRIPTION

college of Dentistry

2026 - 2025

college of Dentistry

Description Academic
Program

Introduction

The College of Dentistry was established in 2002 and strives to raise the level of medical services for citizens by graduating competent dentists to work in health and scientific institutions. In addition, it provides services through its teaching clinics, which were opened in 2005. The specialized dental clinics were expanded in 2008-2009 with the opening of the Laser and Implant Dentistry clinics for the 2012-2013 academic year. At the beginning of the 2014-2015 academic year, the College of Dentistry received its new building, which houses several classrooms designed with modern technology and equipped with display screens and comfortable student seating to keep pace with developments in the field of e-learning. The new teaching clinics are also equipped with the latest dental equipment. All of this is supported by the University Presidency.

The College of Dentistry places great importance on modern technology in light of the scientific revolution the world is witnessing in various fields of cognitive science and the use of artificial intelligence tools.

The program's objectives include using blended learning methods in teaching and student assessment. To graduate students capable of contributing to community service and meeting the demands of the labor market

❖ College branches

- Microbiology Branch
- Basic Sciences Branch
- Oral and Maxillofacial Surgery Branch
- Periodontal Surgery Branch
- Restorative Dentistry Branch
- Prosthodontics Branch
- Orthodontics, Pediatric Dentistry, and Preventive Dentistry Branch

college of Dentistry
Description Academic

University of Babylon	University name
college of Dentistry	College
One-Department College	Scientific Department
Bachelor of Dental Surgery	Academic Program Name
Bachelor degree in Dental Surgery	Certificate awarded
Courses	Study system
Courses and syllabi according to the Ministry	Accredited Program
Educational clinics - Health centers	Other external influences
2026/3/8	Date of preparation of description
2026/3/17	Date the file was filled



The file was reviewed by

Dr. Ahmed Shaker Hussein

Quality Division Manager

10/5/2026



Assistant Dean for Scientific

Dr. Hassan Mohsen Jawad

10/5/2026




Approval
Prof. Dr. Suha Abdul Hussein Hindi / Dean of the
College

1- Program Vision

The program aims to be a leader in graduating scientifically and technically competent medical professionals in the field of dentistry, contributing to the labor market, conducting high-quality scientific research focused on developing the profession and achieving sustainable development goals in line with societal needs, and disseminating applied research that contributes to raising the level of education and bringing about broad advancements in dental sciences.

2 - Program Message -

Providing a comprehensive, integrated education that combines theoretical and practical aspects to equip students with sufficient skills and raise the health level of citizens through the services provided by the college and health and medical awareness guidance for all segments of society to achieve the goals of sustainable development

3- Program Objectives

1-General Objectives:

- a. To raise the academic level of students and faculty by encouraging scientific research and sending them on scholarships outside Iraq.
- b. To provide specialized medical services in the college's teaching and consulting clinics.
- c. To improve and develop the services provided to citizens and achieve the Sustainable 2-Development Goals.

2 -Specific Objectives:

- a. To offer postgraduate studies in all specialties within the field of dentistry.
- b. To establish a surgical center specializing in maxillofacial surgery, treatment of congenital deformities, laser surgery, dental implants, and the treatment of various surgical cases.

4- Program accreditation

The application was submitted and approved according to the Iraqi Dental Colleges Accreditation Program.

5- Other external influences

Labor market - Field visits to government departments - Application in health centers

6- Program structure

Notes	Percentage	Study unit	Number of courses	Program structure
				Institutional requirements
	%100	210	86	College requirements
			Stages four and five	Summer training
			Community services through educational clinics	Other
		210	86	the total

7- Description of the academic program

Number of Teaching Hours			Units	Symbol	Course name in English	Course name in Arabic	Course sequence for the stage courses	Course sequence for department courses
Theory	Tutorial	Practical						
Phase One – Course One								
2	0	2	3	BDEN001001 1	Medical Biology 1	الأحياء الطبية 1	1	1
2	0	2	3	BDEN001002 1	Medical Physics 1	الفيزياء الطبية 1	2	2
2	0	2	3	BDEN001003 1	Medicinal Chemistry 1	الكيمياء الطبية 1	3	3
1	0	2	2	BDEN001004 1	General anatomy 1	التشريح العام 1	4	4
1	0	2	2	BDEN001005 1	Computer	الحاسبات	5	5
1	0	2	2	BDEN001006 1	Dental anatomy 1	تشريح الأسنان 1	6	6
2	0	0	2	BDEN001007 1	Democracy and human rights	الديمقراطية وحقوق الانسان	7	7
2	0	0	2	BDEN001008 1	Arabic language 1	اللغة العربية 1	8	8
Phase One - Course Two								
2	0	2	3	BDEN001009 2	Medical Biology 2	الأحياء الطبية 2	9	9
2	0	2	3	BDEN001010 2	Medical Physics 2	الفيزياء الطبية 2	10	10
2	0	2	3	BDEN001011 2	Medicinal Chemistry 2	الكيمياء الطبية 2	11	11
1	0	2	2	BDEN001012 2	General anatomy 2	التشريح العام 2	12	12
2	0	0	2	BDEN001013 2	Medical terminology	المصطلحات الطبية	13	13
1	0	2	2	BDEN001014 2	Dental anatomy 2	تشريح الأسنان 2	14	14
1	0	2	2	BDEN001015 2	Computer 2	الحاسبات 2	15	15

2	0	0	2	BDEN001016 2	Arabic language 2	اللغة العربية 2	16	16
Phase Two – Course One								
2	0	2	3	BDEN001017 1	General histology 1	الأنسجة العامة 1	17	17
2	0	2	3	BDEN001018 1	Physiology 1	الفسلجة 1	18	18
2	0	2	3	BDEN001019 1	Biochemistry 1	الكيمياء الحياتية 1	19	19
1	0	2	2	BDEN001020 1	General anatomy 1	التشريح العام 1	20	20
1	0	2	2	BDEN001021 1	Dental materials 1	المواد السنية 1	21	21
1	0	2	2	BDEN001022 1	Oral tissue 1	أنسجة الفم 1	22	22
2	0	0	2	BDEN001023 1	Baath Party crimes	جرائم حزب البعث البائد	23	23
1	0	3	2	BDEN001024 1	Prosthodontic 1	صناعة الأسنان 1	24	24
2	0	0	2	BDEN001025 1	Arabic language 1	اللغة العربية 1	25	25
Phase Two – Course Two								
2	0	2	3	BDEN001026 2	General histology 2	الأنسجة العامة 2	26	26
2	0	2	3	BDEN001027 2	Physiology 2	الفسلجة 2	27	27
2	0	2	3	BDEN001028 2	Biochemistry 2	الكيمياء الحياتية 2	28	28
1	0	2	2	BDEN001029 2	General anatomy 2	التشريح العام 2	29	29
1	0	2	2	BDEN001030 2	Computer	الحاسبات	30	30
1	0	2	2	BDEN001031 2	Dental materials 2	المواد السنية 2	31	31
1	0	2	2	BDEN001032 2	Oral tissue 2	أنسجة الفم 2	32	32
1	0	3	2	BDEN001033 2	Prosthodontic 2	صناعة الأسنان 2	33	33
2	0	0	2	BDEN001034 2	Arabic language 2	اللغة العربية 2	34	34
Phase Three – First Course								
2	0	2	3	BDEN001035 1	Microbiology 1	الأحياء المجهرية 1	35	35

2	0	2	3	BDEN001036 1	Pharmacology 1	علم الأدوية 1	36	36
2	0	2	3	BDEN001037 1	Pathology 1	علم الأمراض 1	37	37
2	0	3	3	BDEN001038 1	Operative 1	معالجة الأسنان 1	38	38
1	0	2	2	BDEN001039 1	X-Ray 1	الأشعة 1	39	39
1	0	2	2	BDEN001040 1	Oral surgery 1	جراحة الفم 1	40	40
1	0	3	2	BDEN001041 1	Prosthodontic 1	صناعة الأسنان 1	41	41
1	0	2	2	BDEN001042 1	Community 1	طب المجتمع 1	42	42
Phase Three – Course Two								
2	0	2	3	BDEN001043 2	Microbiology 2	الأحياء المجهرية 2	43	43
2	0	2	3	BDEN001044 2	Pharmacology 2	علم الأدوية 2	44	44
2	0	2	3	BDEN001045 2	Pathology 2	علم الأمراض 2	45	45
2	0	3	3	BDEN001046 2	Operative 2	معالجة الأسنان 2	46	46
1	0	2	2	BDEN001047 2	X-Ray 2	الأشعة 2	47	47
1	0	2	2	BDEN001048 2	Safety and biosecurity	السلامة والأمن البيولوجي	48	48
1	0	2	2	BDEN001049 2	Oral surgery 2	جراحة الفم 2	49	49
1	0	3	2	BDEN001050 2	Prosthodontic 2	صناعة الأسنان 2	50	50
1	0	2	2	BDEN001051 2	Community 2	طب المجتمع 2	51	51
2	0	0	2	BDEN001052 2	Dental ethics	اخلاقيات طب الاسنان	52	52
Phase Four – First Course								
2	0	2	3	BDEN001053 1	Oral pathology 1	أمراض الفم 1	53	53
1	0	4	3	BDEN001054 1	Periodontics 1	أمراض وجراحة ما حول الأسنان 1	54	54
1	0	4	3	BDEN001055 1	Oral surgery 1	جراحة الفم 1	55	55
1	0	4	3	BDEN001056 1	Prosthodontic 1	صناعة الأسنان 1	56	56
1	0	4	3	BDEN001057 1	Operative 1	معالجة الأسنان 1	57	57

1	0	2	2	BDEN001058 1	General surgery 1	الجراحة العامة 1	58	58
1	0	2	2	BDEN001059 1	General medicine 1	الطب العام 1	59	59
1	0	2	2	BDEN001060 1	Orthodontics 1	تقويم الأسنان 1	60	60
1	0	0	1	BDEN001061 1	Pediatric dentistry 1	طب أسنان الأطفال 1	61	61
Phase Four - Course Two								
2	0	2	3	BDEN001062 2	Oral pathology 2	أمراض الفم 2	62	62
1	0	4	3	BDEN001063 2	Periodontics 2	أمراض وجراحة ما حول الأسنان 2	63	63
1	0	4	3	BDEN001064 2	Oral surgery 2	جراحة الفم 2	64	64
1	0	4	3	BDEN001065 2	Prosthodontic 2	صناعة الأسنان 2	65	65
1	0	4	3	BDEN001066 2	Operative 2	معالجة الأسنان 2	66	66
1	0	2	2	BDEN001067 2	General surgery 2	الجراحة العامة 2	67	67
1	0	2	2	BDEN001068 2	General medicine 2	الطب العام 2	68	68
1	0	2	2	BDEN001069 2	Orthodontics 2	تقويم الأسنان 2	69	69
1	0	0	1	BDEN001070 2	Pediatric dentistry 2	طب أسنان الأطفال 2	70	70

Phase Five – First Course								
1	0	4	3	BDEN001071 1	Periodontics 1	أمراض وجراحة ما حول الأسنان 1	71	71
2	0	2	3	BDEN001072 1	Oral surgery 1	جراحة الفم 1	72	72
1	0	4	3	BDEN001073 1	Prosthodontic 1	صناعة الأسنان 1	73	73
1	0	4	3	BDEN001074 1	Operative 1	معالجة الأسنان 1	74	74
1	0	2	2	BDEN001075 1	Orthodontics 1	تقويم الأسنان 1	75	75
1	0	2	2	BDEN001076 1	Pediatric dentistry 1	طب أسنان الأطفال 1	76	76
1	0	2	2	BDEN001077 1	Oral medicine 1	طب الفم 1	77	77

1	0	2	2	BDEN001078 1	Preventive dentistry 1	طب الأسنان الوقائي 1	78	78
Phase Five – Course Two								
1	0	4	3	BDEN001079 2	Periodontics 1	أمراض وجراحة ما حول الأسنان 2	79	79
2	0	2	3	BDEN001080 2	Oral surgery 2	جراحة الفم 2	80	80
1	0	4	3	BDEN001081 2	Prosthetic 2	صناعة الأسنان 2	81	81
1	0	4	3	BDEN001082 2	Operative 2	معالجة الأسنان 2	82	82
1	0	2	2	BDEN001083 2	Orthodontics 2	تقويم الأسنان 2	83	83
1	0	2	2	BDEN001084 2	Pediatric dentistry 2	طب أسنان الأطفال 2	84	84
1	0	2	2	BDEN001085 2	Oral medicine 2	طب الفم 2	85	85
1	0	2	2	BDEN001086 2	Preventive dentistry 2	طب الأسنان الوقائي 2	86	86
0	0	0	2	BDEN001087 2	Graduation research	بحث التخرج	87	87

8- Expected learning outcomes of the program

Learning outcomes	Knowledge	
Lifelong learning, striving to expand knowledge, maintaining scientific and practical competence, and applying modern technology in the practice of dentistry and its various sciences.	Gain comprehensive knowledge of dental concepts and related biomedical sciences that form the basis for understanding human growth, development, and health.	1 ا
	The student defines basic terms in dentistry such as caries and gingivitis.	2 ا
	It explains the principles of evidence-based dentistry and their relationship to scientific research.	3 ا
	The student selects the appropriate tools and materials for use in specific clinical situations.	4 ا
	The student analyzes a radiographic image to identify problems and determine the possibility of diagnosing and treating them.	5 ا
	The student develops a comprehensive treatment plan for a condition such as dental surgery, implants, and orthodontics.	6 ا

Learning outcomes	Skills	
Demonstrate the student's ability to interpret and evaluate data to determine the accuracy and reliability of information from reference sources.	The student performs the local anesthesia technique correctly and safely for the patient.	1 ب
	The student applies infection control and sterilization standards in the clinic.	2 ب
	The student solves the problem of minor bleeding after extraction using appropriate techniques.	3 ب
	The student organizes clinical examination data and radiology images to arrive at an accurate diagnosis.	4 ب
	The student understands the psychological, cultural, and social factors that have implications for the management and prevention of oral diseases.	5 ب

Learning outcomes	Values	
Promoting dental ethics and responsibility towards the community	The student learns the rules and ethics that govern the dental profession in order to be a role model in practicing the profession with integrity and high morals, which is reflected in all aspects of his professional life.	1 ج
	The student pays attention to "the ethical guidelines established by the professor or senior professionals," including confidentiality, informed consent, and fairness in patient care.	2 ج
	The student participates in discussions about the importance of patient consent before starting any treatment procedure.	3 ج
	The student demonstrates great respect for patient privacy and flexibility in dealing with various legal and ethical situations and behaviors that are consistent with professional standards, while taking into account the different needs of young children, adolescents, people with special needs, and the elderly.	4 ج

	The student prioritizes occupational safety, assessing medical emergencies, and adhering to protocols over speed in completing work.	5
	Plan when, how, and where to refer the patient to a specialist based on clinical assessment.	6

Learning strategies	Education strategies	-9
A- Written activities: Demonstrating the student's ability to write clear and organized reports	A- Interactive lectures: using educational presentations such as PowerPoint	
B- Teamwork: Demonstrating leadership and teamwork skills with colleagues in order to provide integrated healthcare while maintaining complete and accurate medical records (paper and electronic).	B- Lectures with discussions: Encouraging students to discuss various topics in dentistry	
C- Small discussion groups: Students are divided into small groups (5-8 students) to discuss and exchange cognitive ideas, analyze problems, and deal with cases of pathological suspicion.	C- Practical effort: Using digital platforms and modern technology in the practice of dentistry	
D- Using simulation exercises: Before dealing with a real patient, the student practices on mannequins, which gives them sufficient experience before applying it to the patient, in addition to reducing stress and giving them confidence.	D- Design programs: Training students to use modern software in education	
E- Summer Field Training: Providing practical training opportunities in health institutions and centers	E- Research projects: Encouraging students to conduct rigorous scientific research addressing a medical condition	
F- Workshops, seminars, and scientific conferences related to dentistry, digital transformation, the use of artificial intelligence, and advanced information and communication technologies to enrich and diversify professional experience.	F- Scientific data analysis: Training students in data analysis and scientific and medical analyses specific to dentistry.	

10 - Assessment methods

- a) Continuous Assessment: Periodic online quizzes during lectures – Student participation in class – Presentations (Seminars)
- b) Practical Assessment: Student's practical skills in the laboratory or teaching clinic
- c) Written Assessment: Developing student responsibility in passing written exams during the semester
- d) Feedback
- e) Extracurricular Activities

f) Report Writing

g) Summative Assessment: Final exam and graduation projects

h) Ministry Assessment Exam

11 - Faculty								
Faculty numbers		Special Requirement s/Skills		Specialization		Academic degree	the name	ت
lecturer	On the permanent angel			Specialization	General			
	*			أمراض الفم	طب أسنان	أستاذ	سهي عبد الحسين هندي	.1
	*			الترميم والتجميل	طب أسنان	أستاذ	أمير حمدي العميدي	.2
	*			فسلجه طبية	طب عام	أستاذ	حيدر حميد عباس	.3
	*			علم الأمراض	طب عام	أستاذ	علي زكي ناجي	.4
	*			أحياء مجهرية	علوم حياة	أستاذ	بهاء حمدي حكيم	.5
	*			أحياء مجهرية	علوم حياة	أستاذ	نبراس نصر الله خضير	.6
	*			أحياء مجهرية	علوم حياة	أستاذ	زينب خضر أحمد	.7
	*			زراعة الأسنان	طب أسنان	أستاذ	أحمد صلاح حميد نعمان	.8
	*			تقويم أسنان	طب أسنان	أستاذ	ثائر جابر عبد الصاحب	.9
	*			أحياء مجهرية	علوم حياة	أستاذ	أحمد محمد عباس	.10
	*			أدوية وسموم	طب أسنان	أستاذ	ملاذ عزيز جبر يوسف	.11
	*			أحياء مجهرية	طب أسنان	أستاذ	فاطمة مالك عبود	.12
	*			معالجة أسنان	طب أسنان	أستاذ	ذو الفقار غالي حميد	.13
	*			أحياء مجهرية	طب بيطري	أستاذ	رشا جاسم موسى	.14
	*			أحياء مجهرية	علوم حياة	أستاذ مساعد	لمى جاسم حمود	.15
	*			أحياء مجهرية	علوم حياة	أستاذ مساعد	حنان سلمان حسن	.16
	*			فلسفة في علوم الحياة	علوم حياة	أستاذ مساعد	زينب هادي كامل حسين	.17
	*			أمراض الفم	طب أسنان	أستاذ مساعد	زياد نزار مجيد علي طالب	.18
	*			فلسفة في علوم الحياة	علوم حياة	أستاذ مساعد	لقاء عدي علي	.19
	*			صناعة الأسنان	طب أسنان	أستاذ مساعد	حنان علي حميد	.20
	*			جراحة الأسنان	طب أسنان	أستاذ مساعد	حيدر علي حسن	.21
	*			صناعة الأسنان	طب أسنان	أستاذ مساعد	زينب محمود جواد	.22

23.	لميس خضر محمد	أستاذ مساعد	طب أسنان	تقويم الأسنان	*
24.	ناهدة حمود عبد جراح	أستاذ مساعد	علوم فيزياء	فيزياء ليزر وكهرو بصريات	*
25.	داليا عبد الزهرة محسن	أستاذ مساعد	صيدلة	أدوية	*
26.	عصام مرزة عبدالله	أستاذ مساعد	طب أسنان	تقويم الأسنان	*
27.	قاسم أحمد عبيس	أستاذ مساعد	طب أسنان	تقويم الأسنان	*
28.	أنس معز عبد الحسين	أستاذ مساعد	طب أسنان	فسلجه طبية	*
29.	أحمد شاكر حسين	أستاذ مساعد	علوم فيزياء	فلسفة في علوم الفيزياء	*
30.	جميلة علي عبد الصاحب	أستاذ مساعد	حاسبات	تكنولوجيا المعلومات	*
31.	أيمن حميد عربي	أستاذ مساعد	طب أسنان	أشعة	*
32.	آزاد محمد رضا	أستاذ مساعد	طب الأسنان	صناعة الأسنان	*
33.	حسن فليح فرحان	أستاذ مساعد	طب الأسنان	طب الأسنان الوقائي	*
34.	ميثم رياض علي	أستاذ مساعد	طب الأسنان	طب الفم	*
35.	هدى عباس محمد مخيف الجريايوي	أستاذ مساعد	علوم حياة	أحياء مجهرية	*
36.	حسن محسن جواد	مدرس	طب أسنان	معالجة اسنان	*
37.	عمار حاتم عبد اللطيف	مدرس	طب عام	كيمياء مرضية	*
38.	ندى مهدي عبد الرضا	مدرس	علوم حياة	أنسجة	*
39.	دعاء عادل عبود	مدرس	طب بيطري	أحياء مجهرية طبية	*
40.	تماره علي ناصر	مدرس	علوم فيزياء	فيزياء الليزر وتطبيقاتها	*
41.	نجلاء ناصر حسين	مدرس	علوم كيمياء	كيمياء لا عضوية	*
42.	محمد عقيل كرم	مدرس	علوم كيمياء	كيمياء لا عضوية	*
43.	علي قيس ليلو العامري	مدرس	طب أسنان	جراحة الأسنان	*
44.	اسراء ناظم حبيب	مدرس	علوم حياة	فلسفة في علوم الحياة	*
45.	دنيا ملحان حنويت	مدرس	طب أسنان	جراحة الأسنان	*
46.	بان حسين كاظم	مدرس	طب عام	امراض	*
47.	زينب هاشم ناصر حسين	مدرس	علوم حياة	أحياء مجهرية	*
48.	أزهر عبد الحافظ	مدرس	طب عام	أدوية وسموم	*

49	ضحى مالك حسن علوان	مدرس	طب أسنان	تقويم الأسنان	*
.50	دولت عبد الباري خضير	مدرس	علوم حياة	أحياء مجهرية	*
.51	سنان عبد الستار جواد	مدرس	طب أسنان	معالجة الأسنان	*
.52	سرى داخل جاسم	مدرس	طب أسنان	أمراض اللثة	*
.53	بسام علي حسين	مدرس	طب أسنان	تقويم أسنان	*
.54	اسراء حسين علي	مدرس	طب أسنان	طب أسنان الأطفال	*
.55	خالد نواف ضاحي	مدرس	طب أسنان	جراحة الأسنان	*
.56	أحمد ضياء نعمة	مدرس	طب أسنان	جراحة الأسنان	*
.57	حسين كريم حميد رشيد	مدرس	طب أسنان	صناعة الأسنان	*
.58	سارة يوسف عباس	مدرس	طب أسنان	طب اطفال	*
.59	عمار عيسى مهدي	مدرس	طب عام	علم الأمراض	*
.60	أسماء سامي جواد صكر	مدرس	طب أسنان	أمراض الفم	*
.61	زهراء محمد حسين ويس	مدرس	طب أسنان	طب أسنان وقائي	*
.62	مخلد لؤي علي سعيد الفلوجي	مدرس	طب أسنان	تقويم اسنان	*
.63	نورا حسين علي عبيس	مدرس	علوم فيزياء	فيزياء الليزر	*
.64	وسن نجم عبد السادة	مدرس	علوم حياة	علم الحيوان	*
.65	ريام عبد الخضر محمد	مدرس	طب بيطري	أحياء مجهرية فموية طبية	*
.66	ايناس ضاحي نعمة	مدرس مساعد	كيمياء	كيمياء حياتية سريرية	*
.67	أميمة لطيف سلمان	مدرس مساعد	طب أسنان	تقويم الأسنان	*
.68	عقيل مسلم عبد الأمير	مدرس مساعد	طب أسنان	تقويم الأسنان	*
.69	صفا حامد عبد الستار	مدرس مساعد	محاسبة	محاسبة	*
.70	زينب عبد خلف حسن	مدرس مساعد	قانون	قانون جنائي	*
.71	هبة عزت رشيد	مدرس مساعد	طب أسنان	أشعة	*
.72	ريم اكرم ناجي محمود	مدرس مساعد	علوم حياة	احياء مجهرية طبية	*
.73	طيبة حبيب سيفي	مدرس مساعد	علوم حياة	أحياء مجهرية	*
.74	اوس معز عبد الحسين	مدرس مساعد	علوم حياة	علوم حياة	*
.75	هديل لؤي كريم عمران	مدرس	علوم كيمياء	كيمياء حياتية	*

				سريرية	مساعد		
	*			أحياء مجهرية	مدرس مساعد	زهراء حسن حمزة التركي	.76
	*			أحياء مجهرية فموية طبية	مدرس مساعد	زهرة كاظم علي هادي	.77
	*			بوليمرات ومواد مركبة	مدرس مساعد	ذرى عبد الامير حسين	.78
	*			أحياء مجهرية فموية طبية	مدرس مساعد	بلال محمد عبيد كاظم	.79
	*			أحياء مجهرية فموية طبية	مدرس مساعد	عمار عبد الستار حمزة	.80
	*			كيمياء حياتية	مدرس مساعد	محمد علي ياسين عزاوي	.81
	*			أحياء مجهرية فموية طبية	مدرس مساعد	حيدر عبد الستار جبار	.82
	*			معالجة أسنان	مدرس مساعد	آيات صلاح مهدي	.83
	*			أمراض اللثة	مدرس مساعد	دعاء نعمة ابراهيم مسير	.84
	*			أحياء مجهرية فموية طبية	مدرس مساعد	ايمان عباس عبود زياد	.85
	*			جراحة أسنان	مدرس مساعد	علي فلاح حسن	.86
	*			علوم حياة	مدرس مساعد	نادية كامل محمد	.87
	*			أحياء مجهرية فموية طبية	مدرس مساعد	سوزان حميد عربي	.88
	*			أحياء مجهرية فموية طبية	مدرس مساعد	انفال احسان جاسم	.89
	*			كيمياء حياتية سريرية	مدرس مساعد	دنيا عباس خضير حمزة	.90
	*			أمراض الفم	مدرس مساعد	سارة أنور محمد علي أمين	.91
	*			جراحة الأسنان	مدرس مساعد	حسن عصام خضير	.92
	*			ذكاء اصطناعي	مدرس مساعد	صفاء حكيم عبيد كاظم	.93
	*			جراحة الاسنان	مدرس مساعد	وهاب رزاق جاسم	.94
	*			علوم كيمياء	مدرس مساعد	شيماء محمد كاظم	.95
	*			هندسة ميكانيك	مدرس مساعد	فاطمه مالك عبود كاظم	.96
	*			قانون	مدرس مساعد	حسنين جاسم كاظم	.97
	*			تاريخ	مدرس	احمد عبد الحمزة	.98

						مساعد		
	*		علوم حياة	علوم حياة	مدرس مساعد	رانية طالب كاظم	.99	
	*		طب اسنان	طب اسنان	مدرس مساعد	قبس منعم عبد محمد	100	
	*		قانون	قانون	مدرس مساعد	جعفر صادق هاشم	101	
	*		علوم حاسبات	علوم حاسبات	مدرس مساعد	حسين حفطي عبد الهادي	102	
	*		علوم فيزياء	علوم فيزياء	مدرس مساعد	ساره علي رزاق	105	

12 - Professional Development

1- 1Guiding faculty members

A. Workshops and Training Courses: Workshops are held on modern teaching methods, such as Problem-Based Learning (PBL) and Blended Learning, which encourage critical thinking among students.

B. Faculty Training in Using Simulation Techniques in Clinical Teaching: This allows students to practice skills in a safe environment before interacting with patients.

C. Constructive Feedback: Faculty members learn how to provide effective and constructive assessments of students, helping them identify strengths and weaknesses and improve their performance.

D. Courses in Scientific Research Methodology: Specialized courses are held in study design, statistical data analysis, and research paper writing, with the aim of enhancing faculty participation in scientific research.

E. Research Collaboration: Collaboration is encouraged between different departments within the college, as well as with international research institutions, to exchange expertise and establish joint research projects.

F. Research Grants: Support and assistance are provided to faculty members in obtaining research grants from local and international entities, ensuring the continuity of scientific research.

2- Faculty Development

a) Scientific Conferences and Seminars: Participation in scientific conferences and seminars provides an opportunity for faculty members to learn about the latest technologies and developments in dentistry, such as digital dentistry and new biomaterials.

b) Continuing Medical Education (CME) Programs: Specialized training courses are offered in specific areas (such as dental implants, orthodontics, and pediatric dentistry) to update the clinical skills of faculty members.

c) Teaching Performance Evaluation: Student questionnaires are used to evaluate faculty performance after their participation in professional development programs.

d) Research Output: The number of research papers published in peer-reviewed scientific journals is measured after receiving training.

13 - Admission Criteria

14- Main sources of information about the program

- a) Ministry of Higher Education and Scientific Research/Committee of Deans of Iraqi Dental Colleges
- b) College website
- c) Books and general resources specific to the college and its various specializations in basic and medical sciences (College with one department)

1. The overall average for central admission, which is within the established limits and according to the directives of the Ministry of Higher Education and Scientific Research. This includes students with high grades who possess the necessary physical and mental capabilities.

2. Personal interviews with applicants to record any speech, behavioral, or personality defects, and to assess qualities such as a willingness to help others, self-confidence, and the ability to face challenges.

15 -Program Development Plan

1- Curriculum Update

To ensure our graduates possess the skills and knowledge necessary to keep pace with global advancements in dentistry, we must periodically review and update the curriculum.

a- **Comprehensive Review:** A specialized committee of faculty members and experts should be formed to evaluate the current curriculum and identify its strengths and weaknesses.

b- **Integration of the Latest Technologies:** Introducing new topics such as digital dentistry including 3D imaging (CBCT) and computer-aided design (CAD/CAM), and regenerative dentistry, such as the use of stem cells in treatment.

c- **Focus on Clinical Skills:** Increasing the number of hours dedicated to practical training in clinics, with an emphasis on basic and advanced clinical skills, such as dental implants and cosmetic dentistry.

2 -Developing Teaching and Assessment Methods

Developing teaching and assessment methods contributes to improving the quality of education and making it more interactive and effective.

a- **Interactive Learning:** Using Problem-Based Learning, where students are presented with real clinical cases and learn how to solve them collaboratively.

b- **Virtual Simulation:** Utilizing simulation centers and dental simulators to train students.

on clinical procedures in a safe environment before moving on to real patients.

c- Continuous Assessment: Implementing a formative assessment system that continuously measures student progress, instead of relying solely on final exams.

3- Strengthening Infrastructure and Practical Training

To provide high-quality medical education, an advanced learning environment equipped with the latest equipment must be provided.

a- Clinic Upgrades: Renovating the college clinics and equipping them with the latest devices such as lasers in dentistry, digital imaging systems, and surgical microscopes.

b- Community Partnerships: Establishing partnerships with hospitals, medical centers, and healthcare institutions to provide additional training opportunities for students.

Curriculum Skills Outline

Learning outcomes required from the program													Essential or optional	Course Name	Course code	Year / Level
Values				skills'				Knowledge								
ج4	ج3	ج2	ج1	ب4	ب3	ب2	ب1	ا4	ا3	ا2	ا1					
√	√	√	√	□	√	√	√	√	√	√	√	essential	Medical Biology 1	BDEN001001 1	Phase 1 Course 1	
√	√	√	√	□	□	√	√	√	√	√	√	essential	Medical Physics 1	BDEN001002 1		
√	√	√	√	□	√	√	√	√	√	√	√	essential	Medical Chemistry 1	BDEN001003 1		
√	√	√	√	√	√	√	√	□	□	√	√	essential	General anatomy 1	BDEN001004 1		
√	√	√	√	√	√	√	√	□	□	√	√	essential	Computer	BDEN001005 1		
□	□	√	√	□	□	√	√	□	□	√	√	essential	Dental anatomy 1	BDEN001006 1		
√	√	√	√	√	√	√	√	□	□	√	√	essential	Democracy and human rights	BDEN001007 1		
√	√	√	√	√	√	√	√	□	□	√	√	essential	Arabic language 1	BDEN001008 1		

	√	√	√	√	□	√	√	√	√	√	√	√	essential	Medical Biology 2	BDEN 001009 2	First stage, second course
	√	√	√	√	□	□	√	√	√	√	√	√	essential	Medical Physics 2	BDEN001010 2	
	√	√	√	√	□	√	√	√	√	√	√	√	essential	Medical Chemistry 2	BDEN 001011 2	
	√	√	√	√	√	√	√	√	□	□	√	√	essential	General anatomy 2	BDEN001012 2	
	√	√	√	√	□	□	√	√	√	√	√	√	essential	Medical terminology	BDEN001013 2	
	□	□	√	√	□	□	√	√	□	□	√	√	essential	Dental anatomy 2	BDEN001014 2	
	√	√	√	√	√	√	√	√	□	□	√	√	essential	Computer 2	BDEN001015 2	
	√	√	√	√	√	√	√	√	□	□	√	√	essential	Arabic language 2	BDEN001016 2	
	□	√	√	√	□	√	√	√	□	√	√	√	essential	General histology 1	BDEN001017 1	Phase Two, First Course
	□	√	√	√	□	√	√	√	□	√	√	√	essential	Physiology 1	BDEN001018 1	
	□	√	√	√	□	√	√	√	□	√	√	√	essential	Biochemistry 1	BDEN001019 1	
	√	√	√	√	□	√	√	√	√	√	√	√	essential	General	BDEN001020 1	

															anatomy 1						
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	<input type="checkbox"/>	√	√	√	essential	Dental materials 1	BDEN001021 1						
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	essential	Oral tissue 1	BDEN001022 1						
	√	√	√	√	√	√	√	√	<input type="checkbox"/>	√	√	√	essential	Baath Party crimes	BDEN001023 1						
	√	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	essential	Prosthodontic 1	BDEN001024 1						
	√	√	√	√	√	√	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	essential	Arabic language 1	BDEN001025 1						
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	essential	General histology 2	BDEN001026 2	Phase Two, Course Two					
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	essential	Physiology 2	BDEN001027 2		Phase Two, Course Two				
	√	√	√	√	<input type="checkbox"/>	√	√	√	√	√	√	√	essential	Biochemistry 2	BDEN001028 2			Phase Two, Course Two			
	√	√	√	√	√	√	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	essential	General anatomy 2	BDEN001029 2				Phase Two, Course Two		
	√	√	√	√	√	√	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	essential	Computer	BDEN001030 2					Phase Two, Course Two	
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	<input type="checkbox"/>	√	√	√	essential	Dental materials 2	BDEN001031 2						Phase Two, Course Two

	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	essential	Oral tissue 2	BDEN001032 2	
	√	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	essential	Prosthodontic 2	BDEN001033 2	
	√	√	√	√	√	√	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	essential	Arabic Language 2	BDEN001034 2	
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	√	√	√	√	essential	Microbiology 1	BDEN001035 1	Phase Three, First Course
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	√	√	√	√	essential	Pharmacology 1	BDEN001036 1	
	<input type="checkbox"/>	<input type="checkbox"/>	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	essential	Pathology 1	BDEN001037 1	
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	essential	Operative 1	BDEN001038 1	
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	√	√	√	√	essential	X-Ray 1	BDEN001039 1	
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	essential	Oral surgery 1	BDEN001040 1	
	√	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	essential	Prosthodontic 1	BDEN001041 1	
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	essential	Community 1	BDEN001042 1	
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	√	√	√	√	essential	Microbiology 2	BDEN001043 2	Phase Three, Course Two
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	√	√	√	√	essential	Pharmacology	BDEN001044 2	

														2		
	<input type="checkbox"/>	<input type="checkbox"/>	✓	✓	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	essential	Pathology 2	BDEN001045	2
	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	essential	Operative 2	BDEN001046	2
	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	✓	✓	✓	✓	essential	X-Ray 2	BDEN001047	2
	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	essential	Safety and biosecurity	BDEN001048	2
	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	essential	Oral surgery 2	BDEN001049	2
	✓	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	<input type="checkbox"/>	✓	✓	essential	Prosthodontic 2	BDEN001050	2
	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	essential	Community 2	BDEN001051	2
✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/>	<input type="checkbox"/>	✓	✓	essential	Dental ethics	BDEN001052	2	
	<input type="checkbox"/>	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	essential	Oral pathology 1	BDEN001053	1
	✓	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	essential	Periodontal diseases and surgery 1	BDEN001054	1
	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	✓	✓	✓	✓	essential	Oral surgery 1	BDEN001055	1
	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>	✓	✓	✓	essential	Prosthodontic	BDEN001056	1

															1		Phase Four, First Course
<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	essential	Operative 1	BDEN001057 1			
<input type="checkbox"/>	<input type="checkbox"/>	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	<input type="checkbox"/>	√	√	√	essential	General surgery 1	BDEN001058 1			
<input type="checkbox"/>	<input type="checkbox"/>	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	<input type="checkbox"/>	√	√	√	essential	General medicine 1	BDEN001059 1			
<input type="checkbox"/>	<input type="checkbox"/>	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	<input type="checkbox"/>	√	√	√	essential	Orthodontics 1	BDEN001060 1			
<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	essential	Pediatric dentistry 1	BDEN001061 1			
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	essential	Oral pathology 2	BDEN001062 2	Phase Four, Course Two	
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	essential	Periodontal diseases and surgery 2	BDEN001063 2		
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	√	√	√	√	essential	Oral surgery 2	BDEN001064 2		
	√	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	essential	Prosthetic 2	BDEN001065 2		
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	essential	Operative 2	BDEN001066 2		
	<input type="checkbox"/>	<input type="checkbox"/>	√	√	<input type="checkbox"/>	<input type="checkbox"/>	√	√	<input type="checkbox"/>	√	√	√	essential	General surgery 2	BDEN001067 2		

	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	essential	General medicine 2	BDEN001068 2	
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	essential	Orthodontics 2	BDEN001069 2	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	essential	Pediatric dentistry 2	BDEN001070 2	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	essential	Periodontal diseases and surgery 1	BDEN001071 1	
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	essential	Oral surgery 1	BDEN001072 1	
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	essential	Prosthodontic 1	BDEN001073 1	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	essential	Operative 1	BDEN001074 1	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	essential	Orthodontics 1	BDEN001075 1	
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	essential	Pediatric dentistry 1	BDEN001076 1	Fifth stage, first course
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	essential	Oral medicine 1	BDEN001077 1	
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	essential	Preventive dentistry 1	BDEN001078 1	

	<input type="checkbox"/>	√	√	√	√	√	√	√	√	√	√	essential	Periodontal diseases and surgery 2	BDEN001079 2	Fifth stage, second course
	<input type="checkbox"/>	√	√	√	√	√	√	√	<input type="checkbox"/>	√	√	essential	Oral surgery 2	BDEN001080 2	
	√	√	√	√	√	√	√	√	√	√	√	essential	Prosthodontic 2	BDEN001081 2	
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	√	√	√	essential	Operative 2	BDEN001082 2	
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	√	√	√	essential	Orthodontics 2	BDEN001083 2	
	√	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	essential	Pediatric dentistry 2	BDEN001084 2	
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	essential	Oral medicine 2	BDEN001085 2	
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	essential	Preventive dentistry 2	BDEN001086 2	
	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	√	<input type="checkbox"/>	√	√	essential	Graduation research	BDEN001087 2	

Course Description Form

1. Course Name. medical biology:	
2. Course Code:BDEN001001 1	
3. Semester / Year:	
Semester/ 2025-2026	
4. Description Preparation Date: 8/3/2026	
5. Available Attendance Forms: weekly	
6. Number of Credit Hours (Total) / Number of Units (Total):	
60hours lecture 60 hours practical	
7. Course administrator's name (mention all, if more than one name)	
<p>name : Dr. Israa Nadhim Habeeb</p> <p>Email: dent.asraa.nathum @uobabylon.edu.iq</p> <p>name : Dr. Hanan Selman</p> <p>Email: dent.hanan.selman @uobabylon.edu.iq</p> <p>name : Susan hameed</p> <p>Email: Susanhameed79@gmail.com</p> <p>name: Reem Akram</p> <p>Email: den945.a.akram@uobabylon.edu.iq</p> <p>Name : Raniah Talib Kadhim</p> <p>Email: den952.a.taleb@uobabylon.edu.iq</p>	
8. Course Objectives	
<ul style="list-style-type: none"> • Cognitive objectives <p>1-The student understands what medical biology</p> <p>2- Linking the relationship between practical and theoretical experiences</p> <ul style="list-style-type: none"> • Program skill objectives <p>1 -Identify the structure of the animal cell and some important biological processes that occur in it such as indirect division and reduction division.</p> <p>2- Identify the four types of animal tissues with some modern information such as some diseases associated with each type.</p>	<p>Course Objectives</p>

9. Teaching and Learning Strategies

- Using the display screen
- Lecture method
- Direct dialogue method by asking questions
- Learning Technologies on Campus E-learning within the university campus by uploading lectures on the college website for lectures by faculty members in the college
- Experimental Learning Experimental learning and in our college laboratory experiments and educational clinics
- Evaluation methods
- Using discussion
- By adopting short tests
- By preparing a report on topics related to the scientific methodological material
- Conducting theoretical and practical tests
- Learning triangle
- Workshops

Strategy

10. Course Structure

First Course

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz 	lecture using PowerPoint	Introduction to biology-part 1	Give an introductory idea on biology the most important scientists who laid the foundation of the cell hypothesis	Lecture2 and 2 practical	First
<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz 	lecture using PowerPoint	Introduction to biology-part 2	Enabling students to distinguish between primitive and eukaryotic cells	Lecture2 and 2 practical	Second
<ul style="list-style-type: none"> • Discussion • Asking questions directly 	lecture using PowerPoint	Immunity	The student gets to know on immune system parts and how immune response in the body used to attack the strange materials	2 Lecture2 and 2 practical	Third

Conducting a • short quiz					
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Bacteria and oral disease	Introducing the science of bacteria and studying the structure of the cell and the different forms in nature	Lecture2 and 2 practical	four
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Epithelial tissue	Giving the student an idea about histology with an explanation of the structure of epithelial tissue, origin and function of epithelial tissue and classification of epithelial tissue	Lecture2 and 2 practical	five
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Glandular tissue .	Giving the student an idea about histology with an explanation of the structure of glandular tissue according to(structure., secretion, mode of secretion and nature of secretion),salivary glands, type of salivary glands and saliva (composition and functions)	2 Lecture and 2 practical	six
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	General connective tissue	Giving the student an idea about histology with an explanation of the structure of connective tissue ,types and functions of cells ,fibers(types and functions) and classification to Proper connective tissue Loose , Dense	Lecture2 and 2 practical	seven
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Muscular tissue	Giving the student an idea about histology with definition of muscles Skeletal muscle (structure and function) Smooth muscles (structure and functions) Cardiac muscles(structure and functions)	Lecture2 and 2 practical	eighth
Discussion • Asking • questions directly	lecture using PowerPoint	Nervous tissue	Giving the student an idea about histology nervous tissue, classification of neurons(sensory ,motor and interneuron),(unipolar, bipolar, multipolar and	Lecture2 and 2 practical	nine

Conducting a • short quiz			pseudo polar) types of glial cell in PNS ,types of glial cells in CNS		
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Cell structure	Giving an idea of of cell membrane (structure and functions) ,cytoplasm and its contents, nucleus (structure and functions) , organelle cytoskeleton	Lecture2 and 2 practical	ten
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Plasma membrane structure	Giving an idea of Plasma membrane (structure and functions)	Lecture2 and 2 practical	Eleven
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Passage of materials across cell membrane	The student give an idea of types of passive transport ,types of active transport, endocytosis and exocytosis	Lecture2 and 2 practical	Twelve
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Cell cycle	The student learns what the cell life cycle is, its importance, and the stages it .goes through	Lecture2 and 2 practical	Thirteen
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Mitosis and meiosis	The student learns and introduction of cellular mitosis, cellular meiosis	Lecture2 and 2 practical	Fourteen
		Semester exam	-		fifteen

11. Course Evaluation

Semester grade (100) is distributed as follows: lecturel semester exam 30 + 10 for the practical semester exam (for
(each semester

Final lecture exam 40 + Final practical exam 20 (for each semester)

Learning and Teaching Resources .12

<p>Human biology</p>	<p>Required textbooks (curricular books, if any)</p>
<p>1-Paniker's Textbook of Medical parasitology eight edition(2018) 2- Textbook of Histology , (2020) by Leslie P. Gartner , Elsevier Health Sciences, Medical - 704 pages. 3- CELL BIOLOGY, Third edition. (2017) Thomas. D; William .C; Jennefer. L. and Graham. T. Printed in U.S.A</p>	<p>Main references (sources)</p>
	<p>Recommended books and references (scientific journals, reports...)</p>
<p>https://openstax.org/books/anatomy-and-physiology/pages/1-introduction https://www.cdc.gov/index.htm</p>	<p>Electronic References, Websites</p>
<ul style="list-style-type: none"> • • • • • • 	<p>Curriculum Development Plan</p>

Course Description Form

1. Course Name. medical biology:	
2. Course Code: BDEN001009 2	
3. Semester / Year:	
Semester / 2025-2026	
4. Description Preparation Date: 8/3/2026	
5. Available Attendance Forms: weekly	
6. Number of Credit Hours (Total) / Number of Units (Total):	
60hours lecture 60 hours practical	
7. Course administrator's name (mention all, if more than one name)	
<p>name : Dr. Israa Nadhim Habeeb</p> <p>Email: dent.asraa.nathum @uobabylon.edu.iq</p> <p>name : Dr. Hanan Selman</p> <p>Email: dent.hanan.selman @uobabylon.edu.iq</p> <p>name: : Susan hameed</p> <p>Email: Susanhameed79@gmail.com</p> <p>: name Reem Akram</p> <p>Email :: den945.a.akram@uobabylon.edu.iq</p> <p>Name : Raniah Talib Kadhim</p> <p>Email: den952.a.taleb@uobabylon.edu.iq</p>	
8. Course Objectives	
<ul style="list-style-type: none"> • Cognitive objectives <p>1-The student understands what medical biology</p> <p>2- Linking the relationship between practical and theoretical experiences</p> <ul style="list-style-type: none"> • Program skill objectives <p>1- Identify some important parasites that infect humans with common- diseases such as malaria, schistosomiasis, and others.</p> <p>2- Identify basic genes in a simple and modern way such as the structure of both DNA and RNA, mutations, and some common genetic diseases such as Mongolia and hereditary hemophilia.</p>	Course Objectives

3- Identify the most important types of worms that live and parasitize humans, causing many diseases

9. Teaching and Learning Strategies

- Using the display screen
- Lecture method
- Direct dialogue method by asking questions
- Learning Technologies on Campus E-learning within the university campus by uploading lectures on the college website for lectures by faculty members in the college
- Experimental Learning Experimental learning and in our college laboratory experiments and educational clinics
- Evaluation methods
- Using discussion
- By adopting short tests
- By preparing a report on topics related to the scientific methodological material
- Conducting theoretical and practical tests
- Learning triangle
- Workshops

Strategy

10. Course Structure.

second First Course

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoit	Genetics part 1	Explanation of genetics, the structure of chromosomes, DNA and RNA strands, gene structure, protein synthesis, somatic and sex chromosome	Lecture2 and 2 practical	First
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoit	Genetics part 2	Explanation of human karyotype phenotype and genotype, crossing over mutation (causes and types) , classification of genetic disease	Lecture2 and 2 practical	Second
Discussion • Asking •	lecture using PowerPoint	Introduction to parasitology	Introducing the science of parasites with an explanation of parasite source of	Lecture2 and 2	Third

questions directly Conducting a • short quiz			infection, entrains and exits of parasites	practical	
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Types of parasites and host	Giving an idea of type of the relationship between parasites and host ,direct and indirect life cycle	Lecture2 and 2 practical	Four
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	General and oral protozoa	The student give an idea on the general characters of parasitism and oral types of protozoa	Lecture2 and 2 practical	Five
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Human amoebas	Give a descriptive and differential between <i>E.histolytica</i> , <i>E.coli</i> , <i>E.gingivalis</i>	Lecture2 and 2 practical	six
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	protozoa flagellates	Give a descriptive <i>Giardia lamblia</i> , <i>Trichomonas tenax</i> , <i>T.hominas</i> , <i>T.vaginalis</i>	Lecture2 and 2 practical	seven
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	<i>Leishmania</i> , cutaneous and visceral	The student give an idea on <i>Leishmania tropica</i> , <i>L.donovani</i> , cutaneous leishmaniasis ,visceral leishmaniasis	Lecture2 and 2 practical	eight
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Sporozoa, <i>Plasmodium spp.</i> and <i>Balantidium</i>	The student give an idea on <i>Balantidium coli Plasmodium malaria</i>	Lecture2 and 2 practical	nine

short quiz					
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	<i>Toxoplasma gondii</i>	Take an idea on Toxoplasmosis a common infection and the important characters of infective stage	Lecture2 and 2 practical	ten
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Nemathelminthes, <i>Ascaris lumbricoides</i>	Take an idea on <i>Ascaris lumbricoides</i>	Lecture2 and 2 practical	Eleven
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	<i>Ancylostoma duodenale, Entrobilus vermicularis</i>	The student learns what the <i>Ancylostoma duodenale, Entrobilus vermicularis</i>	Lecture2 and 2 practical	Twelve
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Platyhelminthes, <i>Fasciola hepatica Echinococcus granulosus</i>	Take an idea on Platyhelminthes	Lecture 2 and 2 practical	thirteen
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	<i>Schistosoma spp. Taenia spp</i>	Take an idea on <i>Schistosoma</i> a common infection and the important characters of infective stage	Lecture2 and 2 practical	Fourteen
		Semester exam			Fifteen

11. Course Evaluation

Semester grade (100) is distributed as follows: lecturel semester exam 30 + 10 for the practical semester exam (for each semester)

Final lecture exam 40 + Final practical exam 20 (for each semester)

.12 Learning and Teaching Resources

Human biology

Required textbooks (curricular books, if any)

Main references (sources)

- 1-Paniker's Textbook of Medical parasitology eight edition(2018)
- 2- Textbook of Histology , (2020) by Leslie P. Gartner , Elsevier Health Sciences, Medical - 704 pages.
- 3- CELL BIOLOGY, Third edition. (2017) Thomas. D; William .C; Jennefer. L. and Graham. T. Printed in U.S.A

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

<https://openstax.org/books/anatomy-and-physiology/pages/1-introduction>
<https://www.cdc.gov/index.htm>

Electronic References, Websites

Curriculum Development Plan

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Course Description Form

1 Medical physics:. Course Name : .1	
Course Code: BDEN001002 1 .2	
Semester / Year: .3	
Semester .4	
Description Preparation Date: 8/3/2026 .4	
Available Attendance Forms: weekly .5	
Number of Credit Hours (Total) / Number of Units (Total): .6	
30 hours lecture 30 hours practical 3	
Course administrator's name (mention all, if more than one name) .7	
<p style="text-align: right;">Dr. Ahmed Shaker Hussein : name dent.ahmed.shakir@uobabylon.edu.iq : Email</p> <p style="text-align: right;">Dr. Nahida Hammoud Abdel : name dent.nahidh.hammood@uobabylon.edu.iq : Email</p> <p style="text-align: right;">teacher. Noura Hussein Ali : name dent.noora.hussinali@uobabylon.edu.iq : Email</p> <p style="text-align: right;">Dr. Tamara Ali Nasser name den.747.a.ali@uobabylon.edu.iq : Email</p> <p style="text-align: right;">Assistant teacher Sara Ali Razzak : name sci543.sara.ali@uobabylon.edu.iq : Email</p>	
Course Objectives .8	
<ul style="list-style-type: none"> • Cognitive objectives 1-The student understands the modern concepts known in the field of medical physics 2-To link between practical and theoretical experiments <ul style="list-style-type: none"> •Program-specific capabilities 1-1Dealing with physical and physical devices and machines 2-Operating devices, organizing them, wiring them, and forming them new from several different devices 3-Requires broad skills, approval, and a greater degree of thinking, deduction, and proving many scientific facts at reasonable prices 4- Using experience in collecting, classifying, and processing data after the experiment is running, and how to analyze data and obtain the expected results and 	<p>Course Objectives</p>

discuss them. Newspapers publish and demonstrate machines for work tools or use them for other purposes.

Teaching and Learning Strategies .9

- 1- Lecture method
 - 2- Student center
 - 3- Team project Student groups
 - 4- Work shop Workshops
 - 5- Scientific trips
 - 6- Learning Technologies on campus E-learning within the university campus by uploading lectures to the college's website for lecturers' lectures
 - 7- Experimental learning Experimental education and in our college educational laboratories and educational clinics Application learning Applied education and in our college within the summer training program for students
 - 8- Thinking skill according to the student's ability so that the student depends on his abilities to think reasonably
 - 9- Understanding when, how, what and how to think to improve the ability to think
 - 10- High thinking skill so that the student learns to think well before making the decision himself
 - 11- Critical thinking strategy in education
- Evaluation methods
- 1- Conducting theoretical and practical exams
 - 2- Feedback from students
 - 3- Conducting short practical exams in the laboratory
 - 4- Learning triangle
 - 5- Delivering seminars by students within the curriculum

Strategy

Course Structure.10

First Course

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz 	lecture using PowerPoint	Terminology	Terms: Medical Physics, physical medicine, Health Physics, Radiological Physics, clinical physics. Modeling, Accuracy, Precision, False Positive, False Negative.	Lecture2 and 2 practical	First
<ul style="list-style-type: none"> • Discussion • Asking questions 	lecture using PowerPoint	Terminology	Terms: Medical Physics, physical medicine, Health Physics, Radiological Physics, clinical	Lecture2 and 2 practical	Second

directly Conducting a • short quiz			physics. Modeling, Accuracy, Precision, False Positive, False Negative.		
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Force on & in body:	Static forces :(type of levers with medical examples). Dynamic forces (Centrifuge)	2 Lecture2 and 2 practical	Third
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Force on & in body:	Static forces :(type of levers with medical examples). Dynamic forces (Centrifuge)	Lecture2 and 2 practical	four
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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).	Lecture2 and 2 practical	five
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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).	2 Lecture and 2 practical	six
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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	Lecture2 and 2 practical	seven

			medicine and cryosurgery. Thermal conductivity.		
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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.	Lecture2 and 2 practical	eighth
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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).	Lecture2 and 2 practical	nine
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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).	Lecture2 and 2 practical	ten
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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	Lecture2 and 2 practical	Eleven

			while diving).HOT (hyperbaric oxygen therapy).		
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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).	Lecture2 and 2 practical	Twelve
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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).	Lecture2 and 2 practical	Thirteen
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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)	Lecture2 and 2 practical	Fourteen
		Semester exam	-		fifteen

Course Evaluation .11

Semester grade (100) is distributed as follows: lectural semester exam 30 + 10 for the practical semester exam (for each semester)

Final lecture exam 40 + Final practical exam 20 (for each semester)

Learning and Teaching Resources .12

Medical Physics) by John R.Cameron and James G.Skofronick	Required textbooks (curricular books) if any(
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Medical Physics) by John R.Cameron and James G.Skofronick	Main references (sources)
---	---------------------------

Binding practical experimences and Internet	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites
<ul style="list-style-type: none"> • Développer des laboratoires de physique adaptés aux exigences de la modernité scientifique • Moyens modernes de présentation du matériel scientifique • Rechercher 	Curriculum Development Plan

Course Description Form

2 Medical physics:. Course Name .1	
Course Code: BDEN001010 2 .2	
Semester / Year: .3	
Semester .4	
Description Preparation Date: 8/3/2026 .5	
Available Attendance Forms: weekly .6	
Number of Credit Hours (Total) / Number of Units (Total): .7	
30hours lecture 30 hours practical 3	
Course administrator's name (mention all, if more than one name) .8	
Dr. Ahmed Shaker Hussein :name dent.ahmed.shakir@uobabylon.edu.iq : Email Dr. Nahida Hammoud Abdel : name dent.nahidh.hammood@uobabylon.edu.iq : Email teacher. Noura Hussein Ali : name dent.noora.hussinali@uobabylon.edu.iq : Email Dr. Tamara Ali Nasser : name den.747.a.ali@uobabylon.edu.iq : Email Assistant teacher Sara Ali Razzak : name sci543.sara.ali@uobabylon.edu.iq : Email	
Course Objectives .9	
<ul style="list-style-type: none"> • Cognitive objectives 1-The student understands the modern concepts known in the field of medical physics 2-To link between practical and theoretical experiments <ul style="list-style-type: none"> •Program-specific capabilities 1-1Dealing with physical and physical devices and machines 2-Operating devices, organizing them, wiring them, and forming them new from several different devices 3-Requires broad skills, approval, and a greater degree of thinking, deduction, and proving many scientific facts at reasonable prices 4- Using experience in collecting, classifying, and processing data after the experiment is running, and how to analyze data and obtain the expected results and discuss them. Newspapers publish and demonstrate machines for work tools or use them for other purposes. 	<p style="text-align: center;">Course Objectives</p>

- 1- Lecture method
 - 2- Student center
 - 3- Team project Student groups
 - 4- Work shop Workshops
 - 5- Scientific trips
 - 6- Learning Technologies on campus E-learning within the university campus by uploading lectures to the college's website for lecturers' lectures
 - 7- Experimental learning Experimental education and in our college educational laboratories and educational clinics Application learning Applied education and in our college within the summer training program for students
 - 8- Thinking skill according to the student's ability so that the student depends on his abilities to think reasonably
 - 9- Understanding when, how, what and how to think to improve the ability to think
 - 10- High thinking skill so that the student learns to think well before making the decision himself
 - 11- Critical thinking strategy in education
- Evaluation methods
- 1- Conducting theoretical and practical exams
 - 2- Feedback from students
 - 3- Conducting short practical exams in the laboratory
 - 4- Learning triangle
 - 5- Delivering seminars by students within the curriculum

Strategy

Course Structure.10

Course Structure second

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoit	<i>Sound in medicine:</i>	Stethoscope (including heart sound).mechanism of hearing	Lecture2 and 2 practical	First
Discussion • Asking • questions directly	lecture using PowerPoit	<i>Ultrasound</i>	(A-scan, B-scan, M-scan and Doppler effect). Physiological effect of ultrasound in therapy.	Lecture2 and 2 practical	Second

Conducting a • short quiz					
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	<i>Ultrasound</i>	(A-scan, B-scan, M-scan and Doppler effect). Physiological effect of ultrasound in therapy.	Lecture2 and 2 practical	Third
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	<i>Light in medicine:</i>	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	Lecture2 and 2 practical	Four
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	<i>Light in medicine:</i>	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	Lecture2 and 2 practical	Five
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	<i>Laser in medicine.</i>	What is laser? Application of laser in medicine Atomic Transitions, Population inversion, Laser Typical Characteristics, General Applications of Laser, Laser Dental Applications, Reshape gum tissue, Laser aided teeth whitening, Laser Drill.	Lecture2 and 2 practical	six
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	<i>Laser in medicine.</i>	What is laser? Application of laser in medicine Atomic Transitions, Population inversion, Laser Typical Characteristics, General Applications of Laser, Laser Dental Applications, Reshape gum tissue, Laser aided teeth	Lecture2 and 2 practical	seven

			whitening, Laser Drill.		
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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.	Lecture2 and 2 practical	eight
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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.	Lecture2 and 2 practical	nine
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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).	Lecture2 and 2 practical	ten
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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).	Lecture2 and 2 practical	Eleven
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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.	Lecture2 and 2 practical	Twelve
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	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.	Lecture 2 and 2 practical	thirteen

Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Physics of radiation therapy:	The dose units (Rad and Gray). Principles of radiation therapy. Brach therapy, quality factor (QF).	Lecture 2 and 2 practical	Fourteen
		Semester exam			Fifteen

Course Evaluation .11

Semester grade (100) is distributed as follows: lecture semester exam 30 + 10 for the practical semester exam (for each semester)

Final lecture exam 40 + Final practical exam 20 (for each semester)

Learning and Teaching Resources .12

Medical Physics) by John R.Cameron and James G.Skofronick	Required textbooks (curricular books if any)
Medical Physics) by John R.Cameron and James G.Skofronick	Main references (sources)
Binding practical experiences and Internet	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites
<ul style="list-style-type: none"> • Développer des laboratoires de physique adaptés aux exigences de la modernité scientifique • Moyens modernes de présentation du matériel scientifique • Rechercher 	Curriculum Development Plan

Course Description Form

Medical chemistry /fist stage

1. Course Name:	
Medical Chemistry 1	
2. Course Code:	
BDEN001003 1	
3. Semester:	
Course 2025-2026	
4. Description Preparation Date:	
8/3/2026	
5. Available Attendance Forms:	
Obligatory / weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
8 hrs.(2 hrs. theory + 6 hrs. practical / 3 units	
7. Course administrator's name (mention all, if more than one name)	
<p>Name: Mohammed Aqeel Karam Email: phar.mohammed.a.karam@uobabylon.edu.iq Name: Najlaa Naseer Hussein Email: den.najlaa.nassir@uobabylon.idu.iq Name: Shaima Mohammed kadhim Email: den878.shymia.mohammed@uobabylon.idu.iq</p>	
8. Course Objectives	
Course Objectives	<p>First: Cognitive Objectives</p> <ul style="list-style-type: none"> • Understanding the role of chemical elements and compounds in the human body. • Identifying the structure and functions of biomolecules. • Learning the nomenclature of chemical compounds. • Identifying chemical substances and their dangers. • The Medicinal Chemistry lesson aims to introduce the fundamentals of

chemistry in all its branches—inorganic, organic, and biological—and its connection to dentistry.

Secondly: Skill-based Objectives

- To be able to identify an acid from a base.
- To be able to detect blood pH acidosis and alkalosis.
- To be able to identify the differential between dental and enamel components.

9. Teaching and Learning Strategies

Strategy

- Problem-based learning strategy.
- Guided and unguided exploration strategies.
- Strategies for teaching productive thinking.
- Offering workshops and extracurricular activities.
- Utilizing the learning triangle.
- Using evaluation methodologies.
- Conducting daily and monthly theoretical and practical tests
- Providing student seminars within the curriculum.
- Preparing weekly practical reports

10. Course Structure

No.	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First week	2t+2p	Learn about the acid and base	Acid, Base and Salt /lab safety	- Theoretical lecture - Laboratory work - Seminars	- Daily exams - Monthly exams - Reports and homework
Second week	2t+2p	Understand the type of salts and preparation methods	salts, preparation of salts /quantitative and qualitative analysis	=	=
Third week	2t+2p	Learn about the body fluids and electrolyte	Fluid and electrolyte /volumetric methods	=	=

Fourth week	2t+2p	Understand Buffer pH and body pH	Buffer-pH and Acid-Base Balance /preparation standard solution.	=	=
Fifth weeks	2t+2p	Describe the acidosis and alkalosis and their effect on the body's organs functions	acid-base balance and blood pH / preparation solution from solid, liquid substances	=	=
Sixth week	2t+2p	Understanding the colloids and types of colloids and their incorporation in dental impressions	Colloids and colloidal dispersions /separation and identification of Cation in group 1	=	=
seventh week	2t+2p	Learn about the important of chirality functional groups	Chirality in Biological Systems / separation and identification of Anion in group 1	=	=
Eighth week	2t+2p	Learn about the different expression of concentrations	concentration, preparation of solutions / Titration process	=	=
Ninth week	2t+2p	Learn about the methods describe the concentrations	Pollution /solubility.	=	=
Tenth week	2t+2p	Learn about the pollution	Radiochemistry /preparation and standardization of approx. (0.1) N HCL.	=	=
Eleventh weeks	2t+2p	Describe the radiochemistry	Carbohydrates reactions / Carbohydrates Reagent 1 Molish test	=	=
Twelfth week	2t+2p	Describe hydrocarbons	Monosaccharides reactions/ Carbohydrates Reagent 2 Benedicts test	=	=

			Barfoead test		
thirteenth week	2t+2p	Learn about Monosaccharides reactions	Disaccharides reactions/ Carbohydrates Reagent 3	=	=
Fourteenth Week	2t+2p	Learn about the Disaccharides reactions	Lipids reactions part 1 and 2 / Lipids reagent.	=	=
Fifteenth Week	2t+2p	Study the reaction of lipids	Exam	=	=

11. Course Evaluation

The grade of the semester (100) is distributed as follows
Midterm exam (30 theoretical + 10 practical) and final exam (40 theoretical + 20 practical)

12 Learning and Teaching Resources

Required textbooks (methodology, if any)

Key references (sources)	The chemical basis of Life: General, Organic, and Biological Chemistry for the Health Sciences By George H.Schmid
Recommended books and references (scientific journals, reports...)	A text-book of macro and) semimicro qualitative inorganic analysis. Fifth Edition Revised by G. Svehla, Ph. D., D. Sc., F. R. I. C Reader in Analytical Chemistry, Queen's University, Belfast
Electronic references, websites	Basic Dental materials, 2nd edation, John J Manappallil, V Surendra Shetty Published by Jitendar P Vij
Course Development Plan	<ul style="list-style-type: none"> • Updating scientific content: <ul style="list-style-type: none"> • Adapting contemporary teaching techniques • reviewing the experiences of the most developed nations and taking advantage of their knowledge • creating specialised physiology labs • updating curriculum vocabulary to reflect modernity in real-world applications • collaborating scientifically with foreign universities • Practical and applied training. • The course development plan for the medical chemistry course is 10%.

Course Description Form

Medical Chemistry 2 /First stage

1. Course Name:	
Medical Chemistry 2	
2. Course Code:	
BDEN001011 2	
3. Semester:	
Course 2025-2026	
4. Description Preparation Date:	
8 /3/2026	
5. Available Attendance Forms:	
Obligatory / weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
8 hrs.(2 hrs. theory + 6hrs. practical / 3 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Mohammed Aqeel Karam Email: phar.mohammed.a.karam@uobabylon.edu.iq Name: Najlaa Nasser Hussein Email: den.najlaa.nassir@uobabylon.idu.iq Name: Shaima Mohmmmed kadhim Email: den878.shymia.mohammed@uobabylon.com	
8. Course Objectives	
Course Objectives	First: Cognitive Objectives 1-The student should understand the tooth structure. 2- The student should understand the proper organic components used in tooth structure. 3- To learn about dental composites filling materials. 4. To know different types of polymers.

	<p>5- To know different between different types of filers.</p> <p style="text-align: center;">Secondly: Skill-based Objectives</p> <ul style="list-style-type: none"> • To be able to recognize between alkanes alkenes and alkynes. • To be able to recognize aromatic compounds. • To be able to identify the amino acids. • To be able to identify the nucleic acids.
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • Method for presenting lectures: • Uploading faculty lectures to the college website for e-learning. • Providing experimental instruction in laboratories. • Offering workshops and extracurricular activities. • Utilizing the learning triangle. • Using evaluation methodologies. • Conducting daily and monthly theoretical and practical tests • Providing student seminars within the curriculum. • Preparing weekly practical reports
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10. Course Structure

No.	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First week	2t+2p	Learn about the Alkanes and cycloalkanes	Alkanes and cycloalkanes / Hydrocarbons	- Theoretical lecture - Laboratory work - Seminars	- Daily exams - Monthly exams - Reports and homework
Second week	2t+2p	Understand the type of Alkane, Alkene and preparation methods	Alkanes and alkenes / Aliphatic hydrocarbons.	=	=
Third week	2t+2p	Learn about the Aromatic compounds in nature	Aromatic compounds in nature / Aromatic hydrocarbons.	=	=

Fourth week	2t+2p	Understand Stereoisomers of carbon	Stereoisomers of carbon /preparation of Aspirin	=	=
Fifth weeks	2t+2p	Describe the Distereomers	Distereomers / Alcohols	=	=
Sixth week	2t+2p	Understanding the preparation, reactions	Phenols(preparation, reactions) / Phenols reactions	=	=
seventh week	2t+2p	Learn about the important of Carboxylic acid and their derivatives	Carboxylic acid and their derivatives / Carboxylic acid part 1	=	=
Eighth week	2t+2p	Learn about the important of Amides	Amides / Carboxylic acid part 2	=	=
Ninth week	2t+2p	Learn about the methods describe the Aldehydes and ketones	Aldehydes and ketones / Aldehydes and ketones	=	=
Tenth week	2t+2p	Learn about the Proteins and amino acid	Proteins and amino acid / Protein reactions	=	=
Eleventh weeks	2t+2p	Describe the Amino acid	Amino acid / Amino acid reactions	=	=
Twelfth week	2t+2p	Describe Nucleic acid	Nucleic acid / Lipids reactions 1	=	=

thirteenth week	2t+2p	Learn about Nucleoside and nucleotide reactions	Nucleoside and nucleotide / Lipids reactions 2	=	=
Fourteenth Week	2t+2p	Learn about the Dioxy and ribo nucleic acid reactions	Dioxy and ribo nucleic acid / PH meter	=	=
Fifteenth Week	2t+2p		Exam	=	=

11. Course Evaluation

The grade of the semester (100) is distributed as follows

Midterm exam (30 theoretical + 10 practical) and final exam (40 theoretical + 20 practical)

12 Learning and Teaching Resources

Required textbooks (methodology, if any)

Key references (sources)	The chemical basis of Life: General, Organic, and Biological Chemistry for the Health Sciences By George H.Schmid
Recommended books and references (scientific journals, reports...)	A text-book of macro and) semimicro qualitative inorganic analysis. Fifth Edition Revised by G. Svehla, Ph. D., D. Sc., F. R. I. C Reader in Analytical Chemistry, Queen's University, Belfast
Electronic references, websites	Basic Dental materials, 2nd edation, John J Manappallil, V Surendra Shetty Published by Jitendar P Vij
Course Development Plan	<p>Updating scientific content:</p> <ul style="list-style-type: none"> • Adapting contemporary teaching techniques • reviewing the experiences of the most developed nations and taking advantage of their knowledge • creating specialized physiology labs • updating curriculum vocabulary to reflect modernity in real-world applications •collaborating scientifically with foreign universities • Practical and applied training.

Course Description Form

1. Course Name: General anatomy	
2. Course Code: BDEN001004 1	
3. Semester / Year: Semester 2025-2026	
4. Description Preparation Date: 8/3/2026	
5. Available Attendance Forms: weekly	
6. Number of Credit Hours (Total) / Number of Units (Total):	
30hours lecture 30 hours practical 3	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Ban Hussein Alwash Email: dent.ban.husayin@uobabylon.edu.iq Name : Dr. Ammar Abdulsattar Hamza Email : den561.ammar.abdalstar@uobabylon.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> ● Objectives of the study subject <p>By the end of this course, students should:</p> <ol style="list-style-type: none"> 1. Have a basic understanding of human body anatomy and function. 2. Be familiar with all fundamental concepts in anatomy. 3. Recognize the changes that occur in cell structure and function due to diseases. 4. Differentiate between various disease types related to anatomy (genetic, inflammatory, tumors). 5. Understand the development of human anatomical structures, particularly the head and neck anatomy, and its relevance to their specialization as dentists. 6. Distinguish between different anatomical structures, their functions, and their symmetrical organization.
9. Teaching and Learning Strategies	

Strategy	<ul style="list-style-type: none"> • 1- Lecture method • 2- Student center • 3- Team project Student groups • 4- Work shop Workshops • 5- Scientific trips • 6- Learning Technologies on campus E-learning within the university campus by uploading lectures to the college's website for lecturers' lectures • 7- Experimental learning Experimental education and in our college educational laboratories and educational clinics Application learning Applied education and in our college within the summer training program for students • 8- Thinking skill according to the student's ability so that the student depends on his abilities to think reasonably • 9- Understanding when, how, what and how to think to improve the ability to think • 10- High thinking skill so that the student learns to think well before making the decision himself • 11- Critical thinking strategy in education Evaluation methods • 1- Conducting theoretical and practical exams • 2- Feedback from students • 3- Conducting short practical exams in the laboratory • 4- Learning triangle • 5- Delivering seminars by students within the curriculum
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10. Course Structure

First Semester

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	2 Lecture and 2 practical	Introduction to Human Anatomy Descriptive Anatomic Terms	Terminology	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz
Second	2 Lecture and 2 practical	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	Terminology	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz

Third	2 Lecture and 2 practical	Basic Structures: Bone, Cartilage.	Terminology	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion •Asking questions directly •Conducting a short quiz
Fourth	2 Lecture and 2 practical	Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	Anatomy and structures of Human membranes	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion •Asking questions directly •Conducting a short quiz
Fifth	2 Lecture and 2 practical	Skeletal system of the body: Skull : Cranial Bones	Anatomy of skull	lecture using PowerPoint	<ul style="list-style-type: none"> Discussion •Asking questions directly •Conducting a short quiz
Sixth	2 Lecture and 2 practical	Skeletal system of the body; bones of Skull	Anatomy of facial bones	lecture using PowerPoint	<ul style="list-style-type: none"> Discussion •Asking questions directly •Conducting a short quiz
Seventh	2 Lecture and 2 practical	External Views of the Skull	Skull view	lecture using PowerPoint	<ul style="list-style-type: none"> Discussion •Asking questions directly •Conducting a short quiz
Eighth	2 Lecture and 2 practical	The Types of the Cranial Cavity.	Cranial cavities and openings	lecture using PowerPoint	<ul style="list-style-type: none"> Discussion •Asking questions directly •Conducting a short quiz
Ninth	2 Lecture and 2 practical	Skeleton of the Orbital Region, Openings into	Anatomy of orbital region	lecture using PowerPoint	<ul style="list-style-type: none"> Discussion •Asking questions directly •Conducting a short quiz
Tenth	2 Lecture and 2 practical	Revision and quiz		lecture using PowerPoint	<ul style="list-style-type: none"> Discussion •Asking questions directly •Conducting a short quiz
Eleventh	2 Lecture and 2 practical	Lymphatic System			<ul style="list-style-type: none"> Discussion •Asking questions directly

					•Conducting a short quiz
Twelfth	2 Lecture and 2 practical	Blood Vessels.			Discussion •Asking questions directly •Conducting a short quiz
Thirteen	2 Lecture and 2 practical	Facial Bones			Discussion •Asking questions directly •Conducting a short quiz
Fourteen	2 Lecture and 2 practical	Major Foramina and Fissures locations and structures pass through the skull.			Discussion •Asking questions directly •Conducting a short quiz
Fifteen	2 Lecture and 2 practical	Neonatal Skull			Discussion •Asking questions directly •Conducting a short quiz
Sixteen		Final exam			

11. Course Evaluation

Semester grade (100) is distributed as follows: lecture semester exam 30 + 10 for the practical semester exam (for each semester)
Final lecture exam 40 + Final practical exam 20 (for each semester)

12. Learning and Teaching Resource

- **Snell RS. Clinical Anatomy by Regions. 9th edition. Philadelphia, PA: Lippincott Williams & Wilkins, 2012.**
- **Keith LM: Clinically Oriented Anatomy, 7th edition. Wolters Kluwer, 2014. 3. Hansen JT: Netter's Clinical Anatomy, 3rd edition. E-Book with Online Access. Elsevier Health Sciences, 2014.**
- **Hansen JT: Netter's Clinical Anatomy, 3rd edition. E-Book with Online Access. Elsevier Health Sciences, 2014.**
- **<https://teachmeanatomy.inf>**
- **Gray's anatomy for students**
- **Grant's atlas of anatomy**

Main references (sources)	<ul style="list-style-type: none"> ▪ Snell RS. Clinical Anatomy by Regions, https://teachmeanatomy.inf ▪ Grant's atlas of anatomy ▪ Netter's Atlas
Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none"> ▪ Snell RS. Clinical Anatomy by Regions, https://teachmeanatomy.inf ▪ Grant's atlas of anatomy
Electronic References, Websites	https://teachmeanatomy.inf
Curriculum Development Plan	<ul style="list-style-type: none"> • Developing anatomy laboratories to align with modern scientific requirements • Using modern methods in delivering course material <p>Keeping up with the latest developments in scientific research and incorporating them into the curriculum</p>

Course Description Form

1. Course Name: General anatomy	
2. Course Code: BDEN001012 2	
3. Semester / Year: Semester 2025-2026	
4. Description Preparation Date: 8/03/2026	
5. Available Attendance Forms: weekly	
6. Number of Credit Hours (Total) / Number of Units (Total):	
30hours lecture 30 hours practical 3	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Ban Hussein Alwash Email: dent.ban.husayin@uobabylon.edu.iq Name : Dr. Ammar Abdulsattar Hamza Email : den561.ammar.abdalstar@uobabylon.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> ● Objectives of the study subject <p>By the end of this course, students should:</p> <ol style="list-style-type: none"> 1. Have a basic understanding of human body anatomy and function. 2. Be familiar with all fundamental concepts in anatomy. 3. Recognize the changes that occur in cell structure and function due to diseases. 4. Differentiate between various disease types related to anatomy (genetic, inflammatory, tumors). 5. Understand the development of human anatomical structures, particularly the head and neck anatomy, and its relevance to their specialization as dentists. 6. Distinguish between different anatomical structures, their functions, and their symmetrical organization.
9. Teaching and Learning Strategies	

Strategy	<ul style="list-style-type: none"> • 1- Lecture method • 2- Student center • 3- Team project Student groups • 4- Work shop Workshops • 5- Scientific trips • 6- Learning Technologies on campus E-learning within the university campus by uploading lectures to the college's website for lecturers' lectures • 7- Experimental learning Experimental education and in our college educational laboratories and educational clinics Application learning Applied education and in our college within the summer training program for students • 8- Thinking skill according to the student's ability so that the student depends on his abilities to think reasonably • 9- Understanding when, how, what and how to think to improve the ability to think • 10- High thinking skill so that the student learns to think well before making the decision himself • 11- Critical thinking strategy in education Evaluation methods • 1- Conducting theoretical and practical exams • 2- Feedback from students • 3- Conducting short practical exams in the laboratory • 4- Learning triangle • 5- Delivering seminars by students within the curriculum
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10. Course Structure
Second Semester

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	2 Lecture and 2 practical	The Vertebral Column	Anatomy of vertebra	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion •Asking questions directly •Conducting a short quiz
Second	2 Lecture and 2 practical	Structure of the Thoracic Wall	Terminology	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion •Asking questions directly •Conducting a short quiz

Third	2 Lecture and 2 practical	Joints of the Chest Wall	Terminology	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz
Fourth	2 Lecture and 2 practical	Suprapleural Membrane	Anatomy and structures of Pleural membranes	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz
Fifth	2 Lecture and 2 practical	Diaphragm	Anatomy of the diaphragm	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz
Sixth	2 Lecture and 2 practical	Surface Anatomy	Anatomy of surface	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz
Seventh	2 Lecture and 2 practical	External Views of the Skull	Skull view	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz
Eighth	2 Lecture and 2 practical	Pericardium, Heart	Anatomy of pericardium	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz
Nineth	2 Lecture and 2 practical	nerves of thorax	Anatomy of thoracic nerves	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz
Tenth	2 Lecture and 2 practical	<i>Bones of the Shoulder (Pectoral girdle) girdles</i>	Terminology	lecture using PowerPoint	<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz
Eleventh		<i>Bones of the Upper extremities</i>	Terminology		<ul style="list-style-type: none"> • Discussion • Asking questions directly

					•Conducting a short quiz
Twelfth		<i>Bones of the Pelvic girdle</i>	Terminology		Discussion •Asking questions directly •Conducting a short quiz
Thirteen		<i>Bones of the Lower extremities</i>	Terminology		Discussion •Asking questions directly •Conducting a short quiz
Fourteen ³		<i>Large arteries, veins</i>	Important blood vessels		Discussion •Asking questions directly •Conducting a short quiz
Fifteen		<i>Abdominal cavity and organs</i>	Anatomy of abdominal cavity		Discussion •Asking questions directly •Conducting a short quiz
Sixteen		Final exam			

11. Course Evaluation

Semester grade (100) is distributed as follows: lecture semester exam 30 + 10 for the practical semester exam (for each semester)
Final lecture exam 40 + Final practical exam 20 (for each semester)

12. Learning and Teaching Resource

- **Snell RS. Clinical Anatomy by Regions. 9th edition. Philadelphia, PA: Lippincott Williams & Wilkins, 2012.**
- **Keith LM: Clinically Oriented Anatomy, 7th edition. Wolters Kluwer, 2014. 3. Hansen JT: Netter's Clinical Anatomy, 3rd edition. E-Book with Online Access. Elsevier Health Sciences, 2014.**
- **Hansen JT: Netter's Clinical Anatomy, 3rd edition. E-Book with Online Access. Elsevier Health Sciences, 2014.**
- **<https://teachmeanatomy.inf>**
- **Gray's anatomy for students**
- **Grant's atlas of anatomy**

Main references (sources)	<ul style="list-style-type: none"> ▪ Snell RS. Clinical Anatomy by Regions, https://teachmeanatomy.inf ▪ Grant's atlas of anatomy ▪ Netter's Atlas
Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none"> ▪ Snell RS. Clinical Anatomy by Regions, https://teachmeanatomy.inf ▪ Grant's atlas of anatomy
Electronic References, Websites	https://teachmeanatomy.inf
Curriculum Development Plan	<ul style="list-style-type: none"> • Developing anatomy laboratories to align with modern scientific requirements • Using modern methods in delivering course material <p>Keeping up with the latest developments in scientific research and incorporating them into the curriculum</p>

Course Description Form

1. Course Name. computer					
2. Course Code: BDEN001005 1					
3. Semester / Year:					
Semester 1		2025-2026			
4. Description Preparation Date: 8/3/2026					
5. Available Attendance Forms: weekly					
6. Number of Credit Hours (Total) / Number of Units (Total):					
15hours lecture 60 hours practical					
7. Course administrator's name (mention all, if more than one name)					
Name : Ass. Pro.Dr.Jameela Ali Alkrimi Safaa Hakeem Email: dent.jameela.ali@uobabylon.edu.iq Email : dent.hakem@ uobabylon.edu.iq					
8. Course Objectives					
<ol style="list-style-type: none"> Utilize the computer for fundamental tasks. Identify and discuss the hardware components of the computer system. Creating documents using a word processor and creating presentations. Conducting research on the Internet. An introduction to Artificial Intelligence 					Course Objectives
9. Teaching and Learning Strategies					
The course introduces students to the fundamentals of computing, including the use of a variety of different hardware and software components. There is no prerequisite knowledge in either programming or computer science.					Strategy
10. Course Structure. second Course					
Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Introduction about computer /Hardware and Software/computer structure/ Floppy magnetic disks	1	First
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Characteristics of A Computer	1	Second

وصف مقرر مادة الحاسبات للمرحلة الاولى 2025 - 2026 الكورس الاول

<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Computer Function	1	Third
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Introduction to Artificial intelligence (AI) Definition of AI, History of AI, AI Techniques and Approaches	1	Four
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Concept of Data, Information and Knowledge	1	Five
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Concept Of E-Learning	1	six
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Computer Virus, types and function	1	seven
			<i>Mid Term exame</i>	1	eight
<ul style="list-style-type: none"> Discussion • Asking questions • directly • Conducting a short quiz 	lecture using Computers		E-learning in Dentistry	1	nine
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Google Classroom Platform Google drive	1	ten

<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Introduction about Windows /A look at Windows 10	1	Eleven
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		. Working with files and folders/ Using My compute	1	Twelve
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Working with Taskbar and Desktop	1	Thirteen
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Using Windows Accessories	1	Fourteen
		Semester exam			Fifteen

11. Course Evaluation

Semester grade (100) is distributed as follows: lecturel semester exam 30 + 10 for the practical semester (exam (for each semester

(Final lecture exam 40 + Final practical exam 20 (for each semester

12 . Learning and Teaching Resources

Application programe

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Course Description Form

1. Course Name. Computer Practical part					
2. Course Code: BDEN001005 1					
3. Semester / Year:					
Semester 1		2025-2026			
4. Description Preparation Date: 8/3/2026					
5. Available Attendance Forms: weekly					
6. Number of Credit Hours (Total) / Number of Units (Total):					
15hours lecture 60 hours practical					
7. Course administrator's name (mention all, if more than one name)					
Name : Ass. Pro.Dr.Jameela Ali Alkrimi Safaa Hakeem Email: dent.jameela.ali@uobabylon.edu.iq Email : dent.hakem@uobabylon.edu.iq					
8. Course Objectives					
<ol style="list-style-type: none"> 1. Utilize the computer for fundamental tasks. 2. Identify and discuss the hardware components of the computer system. 3. Creating documents using a word processor and creating presentations. 4. Conducting research on the Internet. 5. An introduction to Artificial Intelligence 					Course Objectives
9. Teaching and Learning Strategies					
The course introduces students to the fundamentals of computing, including the use of a variety of different hardware and software components. There is no prerequisite knowledge in either programming or computer science.					Strategy
10. Course Structure. First Course					
Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Introduction to Microsoft Word	2	First
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Opening Word 2010: File tab, program interfaces and bars	2	Second

<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Page formatting and background settings in Microsoft Word	2	Third
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Paragraph group, sorting and tabbing group, document display methods group in Microsoft Word	2	Four
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Table Tools and Design Tabs For Table and Layout Tabs In Microsoft Word	2	Five
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		A set of graphics, image tools, and a set of links in Microsoft Word	2	six
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Paragraph group, sorting and tabbing group, document display methods group in Microsoft Word	2	seven
			<i>Mid Term exam</i>	2	eight
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Header and footer set and text set in Microsoft Word	2	nine
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a 	lecture using Computers		Show group, Zoom group, and window; Help instructions	2	ten

short quiz					
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		-Review, proofreading, and language tabs -Comments group, tracking group	2	Eleven
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		For Microsoft Word, the References tab, Table of Contents, and Footnotes .group	2	Twelve
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Home tab, Clipboard group, Font and Paragraph	2	thirteen
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		References and citations, explanatory labels, and index set	2	Fourteen
		Semester exam			Fifteen

11. Course Evaluation

Semester grade (100) is distributed as follows: lecturel semester exam 30 + 10 for the practical semester exam (for each semester

(Final lecture exam 40 + Final practical exam 20 (for each semester

12 . Learning and Teaching Resources

Application programe

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Course Description Form

1. Course Name. computer					
2. Course Code: BDEN001015 2					
3. Semester / Year:					
Semester 2		2025-2026			
4. Description Preparation Date: 8/3/2026					
5. Available Attendance Forms: weekly					
6. Number of Credit Hours (Total) / Number of Units (Total):					
15hours lecture 60 hours practical					
7. Course administrator's name (mention all, if more than one name)					
Name : Ass. Pro.Dr.Jameela Ali Alkrimi Safaa Hakeem Email: dent.jameela.ali@uobabylon.edu.iq Email : dent.hakem@uobabylon.edu.iq					
8. Course Objectives					
<ol style="list-style-type: none"> 1. Utilize the computer for fundamental tasks. 2. Identify and discuss the hardware components of the computer system. 3. Creating documents using a word processor and creating presentations. 4. Conducting research on the Internet. 5. An introduction to Artificial Intelligence 					Course Objectives
9. Teaching and Learning Strategies					
The course introduces students to the fundamentals of computing, including the use of a variety of different hardware and software components. There is no prerequisite knowledge in either programming or computer science.					Strategy
10. Course Structure. second Course					
Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Introduction about computer /Hardware and Software/computer structure/ Floppy magnetic disks	1	First
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a 	lecture using Computers		Characteristics of A Computer	1	Second

short quiz					
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Computer Function	1	Third
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Introduction to Artificial intelligence (AI) Definition of AI, History of AI, AI Techniques and Approaches	1	Four
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Concept of Data, Information and Knowledge	1	Five
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Concept Of E-Learning	1	six
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Computer Virus, types and function	1	seven
			<i>Mid Term exam</i>	1	eight
<ul style="list-style-type: none"> Discussion • Asking questions • directly • Conducting a short quiz 	lecture using Computers		E-learning in Dentistry	1	nine
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a 	lecture using Computers		Google Classroom Platform Google drive	1	ten

short quiz					
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Introduction about Windows /A look at Windows 10	1	Eleven
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		. Working with files and folders/ Using My compute	1	Twelve
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Working with Taskbar and Desktop	1	Thirteen
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Using Windows Accessories	1	Fourteen
		Semester exam			Fifteen

11. Course Evaluation

Semester grade (100) is distributed as follows: lecturel semester exam 30 + 10 for the practical semester exam (for each semester

(Final lecture exam 40 + Final practical exam 20 (for each semester

12 . Learning and Teaching Resources

Application programe

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Course Description Form

1. Course Name. Computer Practical part					
2. Course Code: BDEN001015 2					
3. Semester / Year:					
Semester 2		2025-2026			
4. Description Preparation Date: 8/3/2026					
5. Available Attendance Forms: weekly					
6. Number of Credit Hours (Total) / Number of Units (Total):					
15hours lecture 60 hours practical					
7. Course administrator's name (mention all, if more than one name)					
Name : Ass. Pro.Dr.Jameela Ali Alkrimi Safaa Hakeem Email: dent.jameela.ali@uobabylon.edu.iq Email : dent.hakem@uobabylon.edu.iq					
8. Course Objectives					
<ol style="list-style-type: none"> 1. Utilize the computer for fundamental tasks. 2. Identify and discuss the hardware components of the computer system. 3. Creating documents using a word processor and creating presentations. 4. Conducting research on the Internet. 5. An introduction to Artificial Intelligence 					Course Objectives
9. Teaching and Learning Strategies					
The course introduces students to the fundamentals of computing, including the use of a variety of different hardware and software components. There is no prerequisite knowledge in either programming or computer science.					Strategy
10. Course Structure. First Course					
Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Introduction to Microsoft Word	2	First
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a 	lecture using Computers		Opening Word 2010: File tab, program interfaces and bars	2	Second

short quiz					
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Page formatting and background settings in Microsoft Word	2	Third
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Paragraph group, sorting and tabbing group, document display methods group in Microsoft Word	2	Four
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Table Tools and Design Tabs For Table and Layout Tabs In Microsoft Word	2	Five
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		A set of graphics, image tools, and a set of links in Microsoft Word	2	six
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Paragraph group, sorting and tabbing group, document display methods group in Microsoft Word	2	seven
			<i>Mid Term exam</i>	2	eight
<ul style="list-style-type: none"> •Discussion •Asking questions directly •Conducting a short quiz 	lecture using Computers		Header and footer set and text set in Microsoft Word	2	nine
<ul style="list-style-type: none"> •Discussion •Asking questions directly 	lecture using Computers		Show group, Zoom group, and window; Help instructions	2	ten

•Conducting a short quiz					
•Discussion •Asking questions directly •Conducting a short quiz	lecture using Computers		-Review, proofreading, and language tabs -Comments group, tracking group	2	Eleven
•Discussion •Asking questions directly •Conducting a short quiz	lecture using Computers		For Microsoft Word, the References tab, Table of Contents, and Footnotes .group	2	Twelve
•Discussion •Asking questions directly •Conducting a short quiz	lecture using Computers		Home tab, Clipboard group, Font and Paragraph	2	thirteen
•Discussion •Asking questions directly •Conducting a short quiz	lecture using Computers		References and citations, explanatory labels, and index set	2	Fourteen
		Semester exam			Fifteen

11. Course Evaluation

Semester grade (100) is distributed as follows: lecturel semester exam 30 + 10 for the practical semester (exam (for each semester

(Final lecture exam 40 + Final practical exam 20 (for each semester

12 . Learning and Teaching Resources

Application programe

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Course Description Form

1. Course Name:	
Dental Anatomy I	
2. Course Code:	
BDEN001006 1	
3. Semester / Year:	
8/3/2026	
4. Description Preparation Date:	
October 1st. 2025	
5. Available Attendance Forms:	
In Office Hands on course	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theory:1 Practical:2/ units: 2	
7. Course administrator's name (mention all, if more than one name)	
Name: lect. Esraa Hussein Ali Email: dent.esraa.hussein@uobabylon.edu.iq Name: lect. Sinan A. Shwailiya Email: dent.sinan.a.shwailiya@uobabylon.edu.iq	
8. Course Objectives	
<p>A.Cognitive goals: To enable students to gain Medical and dental Knowledge of:</p> <p>A1. normal human structure and function at the molecular, genetic, cellular, tissue, organ-system and whole-body level</p> <p>A2. the mechanisms involved in the causation and treatment of human diseases and their influence on clinical presentation and therapy.</p> <p>A3. the epidemiology of common oral and dental diseases.</p> <p>A4. the impact of social factors on oral health and disease.</p> <p>A5. the basic scientific and ethical principles of clinical research.</p>	<p>B. The skills goals special to the programme.</p> <p>B1. To enable students to apply scientific methods to the practice of dentistry for the identification of problems, data collection, hypothesis formulation, and the application of deductive reasoning to problem solving, clinical reasoning, and decision-making.</p> <p>B2. To successfully integrate collected clinical information to carry out appropriate diagnostic and treatment plans for patients across the broad spectrum of acute and chronic conditions.</p> <p>B3. To perform basic risk assessments and formulate plans to promote patient wellbeing.</p>
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> • A data show projector is used for direct lectures • Microsoft power point for lecture presentations • Live demonstrations • Preclinical and clinical training with direct supervision • Group Seminars , group meeting, instructions and Discussion • Graduation Research
10. Course Structure	

Week	Hours	Unit or subject name	Required Learning Outcomes	Learning method	Evaluation method
1	1	Introduction	<p>Affective and value goals</p> <p>1. To affectively counsel and educate patients and their families.</p> <p>2. To design diagnostic and treatment options in a manner that will help the participation of patients and their families in shared decision-making.</p> <p>3. To effectively communicate with members, including both dentist and non-dentist professionals, of the health care team.</p>	<p>A data show projector is used for direct lectures</p> <p>Microsoft power point for lecture presentations</p> <p>Live demonstrations</p> <p>Preclinical and clinical training with direct supervision</p> <p>Group Seminars , group meeting, instructions and Discussion</p> <p>Graduation Research</p>	<p>Participation & Activity</p> <p>Quizzes</p> <p>Written Examinations</p> <p>Mid Exam</p> <p>Practical/clinical Assessments and Practical/clinical Examinations</p> <p>Final Examination: Theory 40% and Practical or clinical 20%</p> <p>Committee discussion of seminars and graduation research</p>
2	1	Numbering Systems			
3	1	Anatomical Landmarks			
4	1	//			
5	1	Permanent Maxillary Central Incisor			
6	1	Permanent Maxillary Lateral Incisor			
7	1	Permanent Mandibular Incisors			
8	1	//			
9	1	Permanent Canines			
10	1	//			
11	1	Mid-Course Exam			
12	1	Permanent Maxillary Premolars			
13	1	//			
14	1	Quick Review			
15	1	//			

11. Course Evaluation

Quizzes Written Examinations=5%

Mid Exam=20%

Practical/clinical Assessments and Practical/clinical Examinations=15%

Final Examination: Theory 40% and Practical or clinical 20%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Wheeler,s Dental Anatomy , Physiology and Occlusion
Main references (sources)	Woelfel's Dental Anatomy and its relevance to Dentistry
Recommended books and references (scientific journals, reports...)	Related Journals
Electronic References, Websites	Lectures are available on university official website and lecturer youtube channel

Course Description Form

1. Course Name:					
Dental Anatomy 2					
2. Course Code:					
BDEN001013 2					
3. Semester / Year:					
First year/ 2nd. semester					
4. Description Preparation Date:					
8/3/2026					
5. Available Attendance Forms:					
In Office Hands on course					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theory:1 Practical:2/ units: 2					
7. Course administrator's name (mention all, if more than one name)					
Asst.Lect. Qabas Muniem (dent.qabas.muniem@uobabylon.edu.iq) lect. Sinan A. Shwailiya/ Email: dent.sinan.a.shwailiya@uobabylon.edu.iq					
8. Course Objectives					
<p>A.Cognitive goals: To enable students to gain Medical and dental Knowledge of:</p> <p>A1. normal human structure and function at the molecular, genetic, cellular, tissue, organ-system and whole-body level</p> <p>A2. the mechanisms involved in the causation and treatment of human diseases and their influence on clinical presentation and therapy.</p> <p>A3. the epidemiology of common oral and dental diseases.</p> <p>A4. the impact of social factors on oral health and disease.</p> <p>A5. the basic scientific and ethical principles of clinical research.</p>			<p>B. The skills goals special to the programme.</p> <p>B1. To enable students to apply scientific methods to the practice of dentistry for the identification of problems, data collection, hypothesis formulation, and the application of deductive reasoning to problem solving, clinical reasoning, and decision-making.</p> <p>B2. To successfully integrate collected clinical information to carry out appropriate diagnostic and treatment plans for patients across the broad spectrum of acute and chronic conditions.</p> <p>B3. To perform basic risk assessments and formulate plans to promote patient wellbeing.</p>		
9. Teaching and Learning Strategies					
Strategy		<ul style="list-style-type: none"> • A data show projector is used for direct lectures • Microsoft power point for lecture presentations • Live demonstrations • Preclinical and clinical training with direct supervision • Group Seminars , group meeting, instructions and Discussion • Graduation Research 			
10. Course Structure					
Week	Hours	Unit or subject name	Required Learning Outcomes	Learning method	Evaluation method

1	1	Permanent Mandibular First Premolars	<p>Affective and value goals</p> <p>1. To affectively counsel and educate patients and their families.</p> <p>2. To design diagnostic and treatment options in a manner that will help the participation of patients and their families in shared decision-making.</p> <p>3. To effectively communicate with members, including both dentist and non-dentist professionals, of the health care team.</p>	<p>A data show projector is used for direct lectures</p> <p>Microsoft power point for lecture presentations</p> <p>Live demonstrations</p> <p>Preclinical and clinical training with direct supervision</p> <p>Group Seminars , group meeting, instructions and Discussion</p> <p>Graduation Research</p>	<p>Participation & Activity</p> <p>Quizzes</p> <p>Written Examinations</p> <p>Mid Exam</p> <p>Practical/clinical Assessments and Practical/clinical Examinations</p> <p>Final Examination: Theory 40% and Practical or clinical 20%</p> <p>Committee discussion of seminars and graduation research</p>
2	1	Permanent Mandibular Second Premolar			
3	1	Permanent Maxillary First Molar			
4	1	Permanent maxillary second and third molars			
5	1	Permanent Mandibular First Molar			
6	1	Permanent Mandibular Second and third Molars			
7	1	Mid Course Exam			
8	1				
9	1	Tooth Development			
10	1	//			
11	1	Pulp Cavities			
12	1	//			
13	1	Occlusion and physiologic form of teeth and periodontium.			
14	1	//			
15	1				

11. Course Evaluation

Quizzes Written Examinations=5%
 Mid Exam=20% Practical Assessments and Practical Examinations=15%
 Final Examination: Theory 40% and Practical or clinical 20%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Wheeler,s Dental Anatomy , Physiology and Occlusion
Main references (sources)	Woelfel's Dental Anatomy and its relevance to Dentistry
Recommended books and references (scientific journals, reports...)	Related Journals
Electronic References, Websites	Lectures are available on university official website and lecturer youtube channel

Course Description Form

	Democracy and human rights :. Course Name :.
Course Code: BDEN001007 1 Human rights and democracy08	
Semester / Year: .3	
Semester	
Description Preparation Date: 26/2/2025	
Available Attendance Forms: weekly	
2/30 Number of Credit Hours (Total) / Number of Units (Total): .4	
hours lecture 30	
Course administrator's name (mention all, if more than one name) .5	
Assistant Teacher Zainab Abdul Khalaf Hassan :name	
: Email	
Course Objectives .8	
<ul style="list-style-type: none"> • Cognitive objectives <p>This course description provides a concise summary of the main characteristics of the course and the learning outcomes expected of the student, demonstrating whether he has made the most of the available learning opportunities. It must be linked to the program description.</p> <p>At the end of the semester, the student must be familiar with the following:</p> <ol style="list-style-type: none"> 1- .Be keen to focus on national identity, respect it, and work to consolidate its principles 2- .The necessity of loving the homeland and its people and planting the seeds of peaceful coexistence and living with dignity for all components 3- .Establishing the principles of human rights and democracy, respecting them, and working to mature them 4- .Spreading the culture of accepting others and respecting their religious, political, cultural, and social privacy - .5The necessity of cooperating with state institutions in order to spread security and 	<p>Course Objectives</p>

safety throughout the dear country

A. Cognitive objectives-

A. 1. Knowing the necessary principles of human rights-

A. 2. Knowing the principles of democracy and working to make it successful-

A. 3. Knowing the requirements for security and political stability in the country-

A. 4. Consolidating the role of citizenship and preserving national identity-

A. 5. Spreading the culture of peaceful coexistence and respecting religious and ethnic privacy-

A. 6. Knowing the state's policies in general in order to participate in evaluating them

Teaching and Learning Strategies .9

- 1- Through weekly lectures and students' interaction with them and presenting scientific materials in a theoretical manner
 - 2- Showing a group of documentaries that introduce human rights and democracy
 - 3- Various activities carried out by the professor and involving students in these activities
 - 4- Some humanitarian trips such as visiting orphanages and nursing homes
 - 5- Assigning students to class and awareness activities in order to instill the spirit of citizenship within them
- Evaluation methods
- 1- Class participation through discussions, interventions and expressing opinions
 - 2- By giving them surprise exams and brainstorming to know the extent of their acceptance of the scientific material
 - 3- Standing in front of the class and examining them with questions from the heart of the scientific material and having them explain it
 - 4- Monthly exams with a focus on giving them grades for attendance and absence

Strategy

Course Structure.10

First Course

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
Through class participation	lecture using PowerPoint	Get to know and exchange views What are human rights	Getting to know students Introducing human rights	Lecture2	First
Through class • participation	lecture using PowerPoint	Types of human rights Categories of rights And their	Definition of types of rights Definition of categories of human rights and their characteristics	Lecture2	Second

		features			
Participation • and discussion in the classroom	lecture using PowerPoint	Human Rights in World Civilizations Human Rights in International Covenants	Human Rights in World Civilizations Human Rights in the Modern Era	Lecture 2	Third
Participation • and discussion in the classroom	lecture using PowerPoint	The most important articles of the Universal Declaration of Human Rights The most important contents of this covenant	Universal Declaration of Human Rights The Testament of Imam Ali (peace be upon him) to Malik al-Ashtar	Lecture2	four
Participation • and discussion in the classroom	lecture using PowerPoint	The most important basic rights The most important characteristics of human rights	Fundamental Rights in International Law Characteristics of Human Rights	Lecture2	five
Participation • and discussion in the classroom	lecture using PowerPoint	The most important features of natural law, human rights in Islam and different religions	Features of Natural Law Human Rights in the Middle Ages	2 Lecture	six
Participation • and discussion in the classroom	lecture using PowerPoint	The most important rights that touch people's lives The most important rights that are mentioned in the Qur'an and Sunnah	The Islamic view of man, human rights in the Qur'an and Sunnah	Lecture2	seven
Participation • and discussion	lecture using PowerPoint	These charters	International covenants on human rights. An overview	Lecture2	eighth

in the classroom		The beginnings of democracy The most important definitions	of democracy. Definition of democracy in language and terminology.		
Participation • and discussion in the classroom	lecture using PowerPoint	A brief history of this The two civilizations A brief overview of the most important Forms of democracy	Democracy in Greece and Rome Forms of Democracy	Lecture2	nine
Participation • and discussion in the classroom	lecture using PowerPoint	They are the types of democracy The most important features of democracy	Types of Democracy Advantages of Democracy	Lecture2	ten
Participation • and discussion in the classroom	lecture using PowerPoint	The most important mechanisms by which democracy works The most important deliberative concepts of freedom	Mechanisms of democracy The concept of freedom And its types	Lecture2	Eleven
Participation • and discussion in the classroom	lecture using PowerPoint	The most important of these forms The most important of these types	Forms of public freedoms that establish borders for the state Types of intellectual freedoms	Lecture2	Twelve
Participation • and discussion in the classroom	lecture using PowerPoint	The most important experiments that were applied in developed countries. The most important	Democracy in the Middle Ages and Modern Times The most important applications of democracy in Arab countries	Lecture2	Thirteen

		.applications			
Participation • and discussion in the classroom	lecture using PowerPoint	Some opinions of Islamic thinkers on the most important negatives and positives in implementing democracy in Iraq	Democracy in Islamic Thought The Democratic Experience in Iraq	Lecture2	Fourteen
		The most important types of corruption, negative effects, deviations and explanation of the most important deviations, the most important of these treatments Semester exam	- The phenomenon of administrative corruption in Iraq The most important functional deviations of corruption The effective methodological treatments for the phenomenon of administrative corruption		fifteen

Course Evaluation .11

he semester grade (100) is distributed as follows: Theoretical semester exam 30
Final theoretical exam 70

Learning and Teaching Resources .12

Democracy and Human Rights by Assistant Professor Dr. Maher Sabry Kazem	Required textbooks (curricular books) if any(
Democracy and human rights...Mohammed Abed Al-Jabri...	Main references (sources)
Democracy is a synthetic attempt... Georges Bourdieu... Translated by Salem Nassar	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites
1-The student must be familiar with these two subjects so that he can know what is happening in the Iraqi arena, some of the procedures that are applied in	Curriculum Development Plan

the issue of human rights, and learn about democracy. 2
- The subject professor directs the students to the most important sources, periodicals, and cultural channels to learn about the most important current events in Iraq and the world.

Course Description Form

1. Course Name:	
Dental terminology	
2. Course Code:	
BDEN001013 2	
3. Semester / Year:	
Semesters/ 2026–2025	
4. Description Preparation Date:	
8–03–2026	
5. Available Attendance Forms:	
The student's attendance at lectures mandatory throughout the academic year.	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theory: 30	
7. Course administrator's name (mention all, if more than one name)	
Name: Assistant lecturer. Sarah Anwer Mohammad Ali Email: den254.sarah.anur@uobabylon.edu.iq Name: lecturer. Anas Al-yasiri	
8. Course Objectives: Introducing students to the most important medical and dental terminology that they will frequently use during their studies at the Faculty of Dentistry. Additionally, familiarizing them with the structural composition of terms, including prefixes, infixes, and suffixes, which indicate numbers, colors, diseases, and other medical meanings.	
Course Objectives	<ul style="list-style-type: none"> • To equip students with sufficient cognitive skills, theoretical lectures are presented using slideshow presentations on display screens in lecture hall buildings. Additionally, the brainstorming strategy is implemented during lectures, along with daily,

					monthly, and final exams.
9. Teaching and Learning Strategies					
Strategy		Using various modern devices and equipment to deliver material to students as needed, including: Data show projector LCD screens Electronic boards Smart boards Live streaming through digital cameras			
10. Second semester Structure					
Week	Hours	Unit or subject name	Required Learning Outcomes	Learning method	Evaluation method
1	2	Prefixes & suffixes	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
2	2	Integumentary system	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
3	2	Muscular system	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester

					er assessments, and final exams
4	2	Respiratory system	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
5	2	Digestive system	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
6	2	Nervous system	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
7	2	Cardiovascular system	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments,

					and final exams
8	2	Blood and lymph	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
9	2	Immune system	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
10	2	Endocrine system	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
11	2	Five senses	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

12	2	Genitourinary system	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
13	2	Dental terminology part I	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
14	2	Dental terminology part II	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
15	2	Dental terminology part III	Dental terminology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

11. Course Evaluation

Number	Assessment	Score
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	Measurement		distribution
1	Mid 2 nd semester	30%	30% Written exam
2	Final 2 nd exam	70 %	70% Written exam
Total	100 %		

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Dental terminology , charline M.Dofka, second edition.2007. Medical terminology for health care professionals.Jane Rice, ninth edition,2018
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name:	
General Histology 1	
2. Course Code:	
BDEN001017 1	
3. Semester:	
Course 2025-2026	
4. Description Preparation Date:	
8/3/2026	
5. Available Attendance Forms:	
Obligatory / weekly(theoretical + practical)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hrs. theory + 30 hrs. practical / 3 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr.Likaa Oday Ali Email: dent.liqaa.oday@uobabylon.edu.iq Name: Dr.Nada Mahdi Abdulridha Email: dent.nada.mahdi@uobabylon.edu.iq Name: Ahmad Mohammad Abas Email: Dent.a.almosaui@uobabylon.edu.iq Name: Nadia Kamil Mohammad Email: dent.nadia.kamel@uobabylon.edu.iq Name: Awos Moes Abdul Hussain Email: dent.awos.moes@uobabylon.edu.iq	
8. Course Objectives	
Course Objectives	First: Cognitive Objectives 1- Conducting theoretical and practical exams 2- Feedback from students

	<p>3- Conducting short practical exams in the laboratory 4- Learning triangle</p> <p>Secondly: Skill-based Objectives</p> <p>1-The student will identify the different tissue types. 2- The student will distinguish between the methods used for histological diagnosis. 3- The student will learn methods for preparing tissue on glass slides.</p>
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • 1- Thinking skills based on the student's ability, so that the student can rely on their own abilities to think rationally. 2- Understanding when, how, what, and how to think improves thinking skills. 3- Advanced thinking skills, so that the student learns to think carefully before making decisions on their own. 4- Critical thinking strategies in education. <p>Assessment Methods</p> <ul style="list-style-type: none"> 1- Conducting theoretical and practical exams 2- Student feedback 3- Conducting short practical exams in the laboratory 4- The learning triangle
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10. Course Structure (first course)

No.	Hours	Required Learn	Unit or subject name	Learning method	Evaluation
		Outcomes			method
First week	2 theoretical + 2 practical	Basic science	Introduction techniques and microscopy -List Types of Microscopes and their application in medical research -Types of stain -Tissues preparations -Cell anatomy, -Identify microscopy and Cell Architecture -Describe the detailed structure of the cell organelles (Cytoplasm and nucleus)	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam

			- Cell division, Extracellular materials, Intercellular junction, Basic tissue properties, Basic tissue classification		
Second week	2 theoretical + 2 practical	Basic science	- Epithelia tissues - Epithelium properties, - Epithelium classification, - Basement membrane - Glandular epithelial tissues - Type of glands - endocrine glands - exocrine glands (serous ,mucus and mixed glands)classification.	=	=
Third week	2 theoretical + 2 practical	Basic science	Connective tissue Connective tissue properties - Connective tissue structure Connective tissue classifications -Connective tissue proper. a-loose Connective tissue Type of Dense(regular and irregular) connective tissues 2-dense regular connective tissues Types of cartilage -hyaline cartilage -Elastic cartilage Bone and its types -compact bone -spongy bone -dense irregular connective tissues Muscular tissues	=	=
Fourth week	2 theoretical + 2 practical	Nerve tissue,	Nerve tissue, Neurons, Glial cell, and Synapse. Central nervous system: Cerebrum	=	=
Fifth weeks	2 theoretical + 2	=	Cerebellum ,Spinal cord Peripheral nervous system: Nerve fibers, Ganglia.	=	=

	practical				
Sixth week	2 theoretical + 2 practical	Circulatory system	Circulatory system Arterial system Elastic arteries Muscular arteries	=	=
seventh week	2 theoretical + 2 practical	=	Arterioles Venous system Muscular veins Venules Capillaries The heart	=	=
Eight week	2 theoretical + 2 practical	hemopoiesis	Hemopoiesis Prenatal hemopoiesis, Postnatal hemopoiesis Bone marrow, Red bone marrow, and Yellow bone marrow. -cardiac muscle tissue (MALT). Tonsils. Lymph nodes. spleen	=	=
Ninth week	2 theoretical + 2 practical	Blood cells	Blood cells Erythrocytes or Red blood corpuscles (RBC) White blood cells (Leukocytes) Platelets (Thrombocytes)	=	=
Tenth weeks	2 theoretical + 2 practical	skin	Epidermis , Dermis Thick skin, Thin skin Layers of skin , Melanocytes Langerhans cells Skin glands, Sebaceous Glands	=	=
Eleventh week	2 theoretical + 2 practical	=	Sweat glands Subcutaneous tissue (hypodermis), Hair , Nail. -keratinized and non-	=	=

			keratinized)		
Twelfth week	2 theoretical + 2 practical	Respiratory system	Respiratory system Conducting portion: Nasal cavity, Nasopharynx, Larynx, Trachea,	=	=
thirteenth Week	2 theoretical + 2 practical	=	Bronchi, Bronchioles, and Terminal bronchioles Respiratory portion. Respiratory bronchioles, Alveolar ducts, Alveoli, Lung vasculature	=	=
Fourteenth Week	2t+2p	Lymphoid system	- Lymphoid system Innate and adaptive immunity. Antigens and antibodies. Thymus. Mucosa associated lymphoid tissue (MALT). Tonsils. Lymph nodes. spleen	=	=
Fifteenth Week			exam		

11. Course Evaluation	
The grade of the semester (100) is distributed as follows Midterm exam (30 theoretical + 10 practical) and final exam (40 theoretical + 20 practical)	
12 Learning and Teaching Resources	
Required textbooks (methodology, if any)	
Key references (sources)	Jonquiere's Basic Histology Text and Atlas, Thirteenth Edition (2013) by Anthony L. Mescher
Recommended books and references (scientific journals, reports...)	Di Fiore's Atlas of Histology with Functional Correlations, Twelfth Edition (2013) by Victor P. Eroschenko; Illustrated Dental Embryology
Electronic references, websites	Histology, and Anatomy, Fourth Edition (2016) by Margaret J. Fehrenbach and Tracy Popwics. Microscope Slides of Cells and Tissues Histology Guide
Course Development Plan	<ul style="list-style-type: none"> • Developing tissue laboratories to meet the requirements of scientific modernity. • Adopting modern methods in presenting scientific material. • Researching the latest developments in scientific research and adding them to the curriculum.

Course Description Form

1. Course Name:	
General Histology 2	
2. Course Code:	
BDEN001026 2	
3. Semester:	
Course 2025-2026	
4. Description Preparation Date:	
8/3/2026	
5. Available Attendance Forms:	
Obligatory / weekly(theoretical + practical)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hrs. theory + 30 hrs. practical / 3 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr.Likaa Oday Ali Email: dent.liqaa.oday@uobabylon.edu.iq Name: Dr.Nada Mahdi Abdulridha Email: dent.nada.mahdi@uobabylon.edu.iq Name: Ahmad Mohammad Abas Email: Dent.a.almosaui@uobabylon.edu.iq Name: Nadia Kamil Mohammad Email: dent.nadia.kamel@uobabylon.edu.iq Name: Awos Moes Abdul Hussain Email: dent.awos.moes@uobabylon.edu.iq	
8. Course Objectives	
Course Objectives	First: Cognitive Objectives 1- Conducting theoretical and practical exams 2- Feedback from students

	<p>3- Conducting short practical exams in the laboratory 4- Learning triangle</p> <p>Secondly: Skill-based Objectives 1-The student will identify the different tissue types. 2- The student will distinguish between the methods used for histological diagnosis. 3- The student will learn methods for preparing tissue on glass slides.</p>
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • 1- Thinking skills based on the student's ability, so that the student can rely on their own abilities to think rationally. 2- Understanding when, how, what, and how to think improves thinking skills. 3- Advanced thinking skills, so that the student learns to think carefully before making decisions on their own. 4- Critical thinking strategies in education. <p>Assessment Methods</p> <ul style="list-style-type: none"> 1- Conducting theoretical and practical exams 2- Student feedback 3- Conducting short practical exams in the laboratory 4- The learning triangle
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10. Course Structure (second course)

No.	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First week	2 theoretical + 2 practical	Digestive system	<ul style="list-style-type: none"> - Digestive system General structure of the digestive tract. - Oral cavity: Lip, Tongue. 	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam

Second week	2 theoretical + 2 practical	=	Salivary glands: Parotid, Submandibular, and Sublingual glands. Esophagus, Stomach, Small intestine: Duodenum. Jejunum. Ileum.	=	=
Third week	2 theoretical + 2 practical	=	Large intestine, Cecum. Appendix. Colon	=	=
Fourth week	2 theoretical + 2 practical	=	Organs associated with the digestive tract: Pancreas. Liver. Gallbladder	=	=
Fifth weeks	2 theoretical + 2 practical	Urinary System	Urinary System Nephron: Renal corpuscle (Glomerulus and Bowman's capsule), Proximal convoluted tubules, Henle's loop, Distal convoluted tubules, Juxtaglomerular apparatus. Collecting tubules	=	=
Sixth week	2 theoretical + 2 practical	=	Excretory passage Calyces, Ureter Urinary bladder, Male and female urethra.	=	=
seventh week	2 theoretical + 2 practical	Endocrine system	Endocrine System -Pituitary gland (Hypophysis) anterior pituitary and hard palate	=	=

Eight week	2 theoretical + 2 practical	=	pars nervosa and salivary glands secretion -Adrenal glands Pancreatic Islets (islets of Langerhans)	=	=
Ninth week	2 theoretical + 2 practical	=	Thyroid gland. origin of thyroid glands Parathyroid glands Pineal gland	=	=
Tenth weeks	2 theoretical + 2 practical	male Reproductive System.	male Reproductive System. Testes, Intratesticular ducts	=	=
Eleventh week	2 theoretical + 2 practical	=	Excretory genital ducts Accessory glands, Penis.	=	=
Twelfth week	2 theoretical + 2 practical	female Reproductive System.	Female Reproductive System Ovaries. Uterine tubes	=	=
thirteenth Week	2 theoretical + 2 practical	=	Uterus Placenta ,Vagina, Mammary glands	=	=
Fourteenth Week	2t+2p	Sense organ	Sense Organ (Ear) Histological structure of ear. Sense Organ (Eye) Histological structure of eye	=	=
Fifteenth Week			exam		

11. Course Evaluation	
The grade of the semester (100) is distributed as follows Midterm exam (30 theoretical + 10 practical) and final exam (40 theoretical + 20practical)	
12 Learning and Teaching Resources	
Required textbooks (methodology, if any)	
Key references (sources)	Jonquiere’s Basic Histology Text and Atlas, Thirteen Edition (2013) by Anthony L. Mescher
Recommended books and references (scientific journals, reports...)	Di Fiore’s Atlas of Histology with Functional Correlations, Twelfth Edition (2013)by Victor P. Eroschenko; Illustrated Dental Embryology
Electronic references, websites	Histology, and Anatomy, Fourth Edition (2016)by Margaret J. Fehrenbach and Tracy Popwics. Microscope Slides of Cells and Tissues Histology Guide
Course Development Plan	<ul style="list-style-type: none"> • Developing tissue laboratories to meet the requirements of scientific modernity. • Adopting modern methods in presenting scientific material. • Researching the latest developments in scientific research and adding them to the curriculum.

Course Description Form

1. Course Name:	
Physiology 1	
2. Course Code:	
BDEN001018 1	
3. Semester:	
Course 2025-2026	
4. Description Preparation Date:	
8/3/2026	
5. Available Attendance Forms:	
Obligatory / weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hrs. theory + 30 hrs. practical / 3 units	
7. Course administrator's name (mention all, if more than one name)	
<p>Name: Heider Hameed Abbas Email: dent.heider.hameed@uobabylon.edu.iq Name: Zainab Hadi Kamil Email: zainab.hadi@uobabylon.edu.iq Name: Anas Moes Abdulhussein Email: dent.anas.moez@uobabylon.edu.iq Name: Wasan Najim Abdulsada Email: dent.wasan.najim@uobabylon.edu.iq</p>	
8. Course Objectives	
Course Objectives	<p>First: Cognitive Objectives The student should know the components of the cell and the function of each organ in it 2- The student should know the types of blood cells and blood groups. 3- To learn about the functions of the heart</p>

	<p>4- To learn about oral physiology and how the salivary glands work</p> <p>5- To be able to know the mechanism of the respiratory system</p> <p>Secondly: Skill-based Objectives</p> <ul style="list-style-type: none"> • To be able to observe, imitate and experiment in the physiology curriculum • To be able to diagnose diseases related to each system in the human body <ul style="list-style-type: none"> • to be able to diagnose blood diseases
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • Lecture giving method • E-learning within the university campus by uploading lectures to the college website for lectures by faculty members in the college • Experimental education in laboratories • Workshops and extracurricular activities • Learning triangle <p>Evaluation methods</p> <ul style="list-style-type: none"> • Conducting daily and monthly theoretical and practical tests • Giving seminars by students within the curriculum • Preparing weekly practical reports
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10. Course Structure

No.	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First week	2t+2p	Learn about the function of body cells	Introduction Function organization of the human body	<ul style="list-style-type: none"> - Theoretical lecture - Laboratory work - Seminars 	<ul style="list-style-type: none"> - Daily exams - Monthly exams - Reports and homework

Second week	2t+2p	Understand body fluids and their functions	<ul style="list-style-type: none"> • Body fluid 	=	=
Third week	2t+2p	Learn about the movement of fluids and materials between cells	<ul style="list-style-type: none"> • Homeostasis and Transport across cell membrane 	=	=
Fourth week	2t+2p	Understand oral physiology and salivary glands	<ul style="list-style-type: none"> • ORAL CAVITY and Salivary Glands Salivary functions and Regulation of Salivary Secretion 	=	=
Fifth weeks	2t+2p	Describe red blood cells and their function	Red blood cells	=	=
Sixth week	2t+2p	Describe white blood cells and their function	<ul style="list-style-type: none"> • White Blood Cells 	=	=
seventh week	2t+2p	Learn about the function of hemoglobin in the blood	<ul style="list-style-type: none"> • Hemoglobin 	=	=

Ninth week	2t+2p	Test the blood types	Blood groups	=	=
Tenth week	2t+2p	How a clot occurs	Hemostasis and blood coagulation	=	=
Eleventh weeks	2t+2p	Structure and function of the heart and blood vessels	Cardiovascular system: Blood vessels	=	=
Twelfth week	2t+2p	How to check blood pressure	Cardiovascular system: Blood pressure	=	=
thirteenth week	2t+2p	electrocardiogram	Cardiovascular system (Electrocardiogram)	=	=
Fourteenth Week	2t+2p	Learn about the respiratory system	Respiratory system (Types of Respiration)	=	=
Fifteenth Week	2t+2p	Study the volume and capacity of the lungs	Respiratory system: Lung volumes and capacities	=	=

11. Course Evaluation

The grade of the semester (100) is distributed as follows
Midterm exam (30 theoretical + 10 practical) and final exam (40 theoretical + 20 practical)

12 Learning and Teaching Resources

Required textbooks (methodology, if any)

Key references (sources)

-Guyton and Hall Medical Physiology 12th edition

	-Sembulingam & Sembulingam Essentials of Physiology for Dental students
Recommended books and references (scientific journals, reports...)	-Marieb (2006). Essentials of human anatomy and physiology. -Guyton (2006). Textbook of clinical physiology. -Gannong (2007). Review of medical physiology.
Electronic references, websites	Dacie & Lewis (2006). Practical haematology https://pubmed.ncbi.nlm.nih.gov/?term=physiology
Course Development Plan	<ul style="list-style-type: none"> • Updating scientific content: <ul style="list-style-type: none"> • Developing curriculum vocabulary to suit modernity in practical uses • Adopting modern teaching methods • Seeking to develop specialized laboratories in the field of physiology • Reviewing the experiences of the most advanced countries and benefiting from their expertise • Scientific cooperation with international universities Practical and applied training:

Course Description Form

1. Course Name:	
Physiology 2	
2. Course Code:	
BDEN001027 2	
3. Semester:	
Course 2025-2026	
4. Description Preparation Date:	
8/3/2026	
5. Available Attendance Forms:	
Obligatory / weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hrs. theory + 30 hrs. practical / 3 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Heider Hameed Abbas Email: dent.heider.hameed@uobabylon.edu.iq Name: Zainab Hadi Kamil Email: zainab.hadi@uobabylon.edu.iq Name: Anas Moes Abdulhussein Email: dent.anas.moez@uobabylon.edu.iq Name: Wasan Najim Abdulsada Email: dent.wasan.najim@uobabylon.edu.iq	
8. Course Objectives	
Course Objectives	First: Cognitive Objectives - The student should know the functions of the muscular and digestive systems 2- The student should know the types of endocrine glands and hormones

	<p>3- To learn about the functions of the nerves and sensory organs 4- To learn about the physiology of the urinary system 5- To be able to know metabolism and nutrition 6- The student should learn about physiological changes at heights and depths</p> <p>Secondly: Skill-based Objectives</p> <ul style="list-style-type: none"> • To be able to observe, imitate and experiment in the physiology curriculum • To be able to diagnose diseases related to each system in the human body <ul style="list-style-type: none"> • to be able to diagnose blood diseases
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • Lecture giving method • E-learning within the university campus by uploading lectures to the college website for lectures by faculty members in the college • Experimental education in laboratories • Workshops and extracurricular activities • Learning triangle <p>Evaluation methods</p> <ul style="list-style-type: none"> • Conducting daily and monthly theoretical and practical tests • Giving seminars by students within the curriculum • Preparing weekly practical reports
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10. Course Structure

No.	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First week	2t+2p	Identify the organs of vision, hearing, taste and smell	- Special Sensation	- Theoretical lecture - Laboratory work - Seminars	- Daily exams - Monthly exams - Reports and homework

Second week	2t+2p	How to measure body temperature	<ul style="list-style-type: none"> • Temperature of the Body 	=	=
Third week	2t+2p	Understand the structure and functions of urine	<ul style="list-style-type: none"> • Urinary system 	=	=
Fourth week	2t+2p	understand how urine is formed and examined	<ul style="list-style-type: none"> • Urine formation 	=	=
Fifth weeks	2t+2p	Describe the endocrine glands and measure hormone concentrations	Endocrine System	=	=
Sixth week	2t+2p	identify the most important major endocrine glands	<ul style="list-style-type: none"> • Major Endocrine Glands 	=	=
seventh week	2t+2p	Describe the digestive system (stomach and its function)	<ul style="list-style-type: none"> • Digestive system 	=	=

Ninth week	2t+2p	Identify digestion in the intestines and absorption	Digestive system	=	=
Tenth week	2t+2p	Identify the muscle cell	Muscular system: Muscle structure	=	=
Eleventh weeks	2t+2p	How muscle contraction occurs	Muscular system: Tone , contraction	=	=
Twelfth week	2t+2p	Structure and function of nerves and nerve connections	Nervous System: Nerve impulse, synapses	=	=
thirteenth week	2t+2p	Identify sensory and motor nerves	Nervous System	=	=
Fourteenth Week	2t+2p	Understand the physiology of reproduction	Reproductive system	=	=
Fifteenth Week	2t+2p	Identify the physiological adaptations to altitudes and depths	Aviation and Deep physiology	=	=

	Knowledge of metabolic processes and nutrition	Respiratory system: Lung volumes and capacities	=	=
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11. Course Evaluation

The grade of the semester (100) is distributed as follows
 Midterm exam (30 theoretical + 10 practical) and final exam (40 theoretical + 20 practical)

12 Learning and Teaching Resources

Required textbooks (methodology, if any)

Key references (sources)	-Guyton and Hall Medical Physiology 12th edition -Sembulingam & Sembulingam Essentials of Physiology for Dental students
Recommended books and references (scientific journals, reports...)	-Marieb (2006). Essentials of human anatomy and physiology. -Guyton (2006). Textbook of clinical physiology. -Gannong (2007). Review of medical physiology.
Electronic references, websites	Dacie & Lewis (2006). Practical haematology https://pubmed.ncbi.nlm.nih.gov/?term=physiology
Course Development Plan	<ul style="list-style-type: none"> • Updating scientific content: <ul style="list-style-type: none"> • Developing curriculum vocabulary to suit modernity in practical uses • Adopting modern teaching methods • Seeking to develop specialized laboratories in the field of physiology • Reviewing the experiences of the most advanced countries

	<p>and benefiting from their expertise</p> <ul style="list-style-type: none">• Scientific cooperation with international universities • Practical and applied training:
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Biochemistry/2nd stage

Course Description Form

1.Course Name
Biochemistry
2.Course Code
1st semester: BDEN001019 1 2nd semester: BDEN001028 2
3.Semester / Year
2025_ 2026 (2 semesters)
4.Date of Preparation of This Description
8/3/2026 + 8/3/2026
5. Available Attendance Forms:
Obligatory / weekly
6. Number of Credit Hours (Total) / Number of Units (Total)
4 hours per week (2 Hrs. theoretical / 2 Hrs. practical)
7. Course administrator's name (mention all, if more than one name)
<p>Name: Ammar Hatem Abdullateef Email: dent.ammar.hattem@uobabylon.edu.iq</p> <p>Name: Zainab Ghalib Abdul Kareem Saleh Email: den212.zanab.galab@uobabylon.edu.iq</p> <p>Name: Hadeel Luay Kareem Imran Email: hadeel.kareem@uobabylon.edu.iq</p> <p>Name: Dunia Abbas Khudair Email: den302.dunaa.abbas@uobabylon.edu.iq</p> <p>Name: Enas Dhahi Ne'ma Email: den759.enass.dahy@uobabylon.edu.iq</p> <p>Name: Mohammed Ali Yaseen Email: mohammedali941210@gmail.com</p> <p>Name: Shaima Mohammed Kadhim Email: den878.shymia.mohammed@uobabylon.com</p>
8. Course Objectives
First: Cognitive Objectives
1. Recognize all the fundamental concepts of biochemistry.

2. Understand the natural chemical changes that occur in our bodies and their impact on body physiology and functions.
3. Comprehend the chemical structure of body cells, metabolic processes, and all reactions occurring within them.
4. Identify all the essential compounds that the body obtains from food or synthesizes internally, such as carbohydrates, proteins, fats, vitamins, and other vital elements.
5. Understand the functions of organs such as the liver and kidneys, and how to detect pathological changes in them through laboratory analyses.
6. Learn the mechanism of enzyme and hormone function, the changes accompanying diseases, and how to utilize them in laboratory diagnostics.
7. Become familiar with important and common diseases affecting various body systems, understand the accompanying chemical changes, and learn how to diagnose and monitor them through chemical laboratory analyses.
8. Understand the different types of laboratory samples used in medical diagnostics, how to handle them, and the necessary procedures and precautions to ensure the safety of both the sample and the laboratory personnel from infection risks or side effects of various chemical substances present in the laboratory.

Secondly: Skill-based Objectives

1. Identify the various types of samples used in biochemistry laboratories.
2. Differentiate between blood samples and other body fluids and their uses in diagnosing different diseases.
3. Distinguish between chemical changes, their impact on health, and their relation to diseases affecting the body.

9. Teaching and Learning Strategies

- Lectures.
- Laboratory applications in basic science labs.

Practical applications in dental clinical education for specialized diseases.

Seminars.

Evaluation Methods

Theoretical and practical exams, seminars, as well as feedback from students and the learning triangle

10.Course Structure

First Semester

Week	Hours	Required Learning Outcomes: Theoretical / practical	Unit/Topic Name	Learning Method	Evaluation Method
1 st	4	Enzymes: Definition, Terminology, and Classification / Lab Safety	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
2 nd	4	Mechanism of Enzyme Action / Sample Collection-1	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
3 rd	4	Clinical Significance of Enzyme Assays / Sample Collection-2	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
4 th	4	Digestion and Absorption of Carbohydrates, Lipids, and Proteins / Spectrophotometer	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
5 th	4	Salivary Secretion (Saliva), Pancreatic Juice / Standard Curve	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
6 th	4	Chemistry of Carbohydrates / Blood Glucose + HbA1c	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	

Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Evaluation Method
7 th	4	Metabolism of Carbohydrates: Part 1 / Total Protein	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
8 th	4	Metabolism of Carbohydrates: Part 2 / Albumin + Globulin	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
9 th	4	Carbohydrate Metabolism Regulation / Troponin	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
10 th	4	Chemistry of Proteins and Amino Acids / Liver Function Test (Bilirubin)	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
11 th	4	Metabolism of Proteins and Amino Acids / Alkaline Phosphatase	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
12 th	4	Metabolism of Proteins and Amino Acid Regulation / Transaminases (ALT & AST)	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
13 th	4	Metabolism of Proteins and Amino Acid Inherited Disorders / Lipids in Blood (Cholesterol & Lipoprotein)	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	

Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Evaluation Method
14 th	4	Vitamins: Definition, Classification / Triglyceride	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
15 th	4	Exam / Kidney Function Test (Urea)	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	

Second Semester

Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Evaluation Method
1 st	4	Lipids: Definition, Classification / Serum Creatinine & Creatinine Clearance	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
2 nd	4	Metabolism of Lipids: Oxidation of Fatty Acids / General Urine Analysis-1	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
3 rd	4	Biosynthesis of Fatty Acids / General Urine Analysis-2	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
4 th	4	Integration of Carbohydrate, Lipid, and Protein Metabolism / Uric Acid	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
5 th	4	Metabolism of Purines and Pyrimidines / Amylase in Serum + Saliva	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	

Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Evaluation Method
6 th	4	Metabolism of Purines and Pyrimidine Disorders / Creatine Phosphokinase	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
7 th	4	Nucleic Acids: Definition and Protein Synthesis / Lactate Dehydrogenase	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
8 th	4	Hormones: Definition, Classification / Serum Calcium	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
9 th	4	Hormonal Disorders / Serum Phosphorus	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
10 th	4	Acid-Base Balance / Serum Sodium	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
11 th	4	Trace Elements Disorders / Serum Potassium	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
12 th	4	Electrolytes / Serum Iron	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
13 th	4	Liver Function Test / Vitamin D	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	

Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Evaluation Method
14 th	4	Kidney Function Test / Vitamin C	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	
15 th	4	Exam / Exam	Theoretical lectures and educational labs	Theoretical and practical exams, seminars, and student feedback via the learning triangle.	

11. Course Evaluation

The semester grade (100) is distributed as follows: the total of 100 points is allocated based on the tasks assigned to the student such as daily preparation, daily, oral, monthly, written exams, reports, etc.

Midterm exam (30 theoretical + 10 practical) and final exam (40 theoretical + 20 practical)

12 Learning and Teaching Resources

Required textbooks (methodology, if any)

1. Lippincott's Illustrated Reviews, Biochemistry. 5th edition, 2011.
2. Tietz Fundamentals of Clinical Chemistry, 8th edition, 2018.

Primary References (Sources):

- Biochemistry_5th_Edition_booksmedicos
- Clinical_Biochemistry_Review
- Basic Concepts in Biochemistry – HIRAM F. GILBERT
- Biochemistry_for_Medical_Professionals

Recommended books and references (scientific journals, reports...)	Conducted through scientific seminars in various dental and basic science specialties, including biochemistry. Electronic references and internet websites.
Course Development Plan	The course development plan for the Biochemistry course is 10 %

نموذج وصف المقرر

Course Name: General anatomy .1	
Course Code: .2 BDEN001020 1 BDEN001029 2	
Semester / Year: .3 Semester 2025-2026	
Description Preparation Date: 2026/3/8 .4 2026/3/8	
Available Attendance Forms: weekly	
Number of Credit Hours (Total) / Number of Units (Total): .6 30hours lecture 30 hours practical 3	
Course administrator's name (mention all, if more than one name)	
Name: Lecturer Dr. Ban Hussein Alwash Email: dent.ban.husayin@uobabylon.edu.iq Name : Lecturer Ammar Abdulsattar Hamza Email: den561.ammar.abdalstar@uobabylon.edu.iq	
Course Objectives .8	
<ul style="list-style-type: none"> Objectives of the study subject <p>By the end of this course, students should:</p> <ol style="list-style-type: none"> 1. Have a basic understanding of human body anatomy and function. 2. Be familiar with all fundamental concepts in anatomy. 3. Recognize the changes that occur in cell structure and function due to diseases. 4. Differentiate between various disease types related to anatomy (genetic, inflammatory, tumors). 	<ul style="list-style-type: none"> Objectives of study subject

5. Understand the development of human anatomical structures, particularly the head and neck anatomy, and its relevance to their specialization as dentists.	
6. Distinguish between different anatomical structures, their functions, and their symmetrical organization.	

Teaching and Learning Strategies .9

<ul style="list-style-type: none"> • 1- Lecture method • 2- Student center • 3- Team project Student groups • 4- Work shop Workshops • 5- Scientific trips • 6- Learning Technologies on campus E-learning within the university campus by uploading lectures to the college's website for lecturers' lectures • 7- Experimental learning Experimental education and in our college educational laboratories and educational clinics Application learning Applied education and in our college within the summer training program for students • 8- Thinking skill according to the student's ability so that the student depends on his abilities to think reasonably • 9- Understanding when, how, what and how to think to improve the ability to think • 10- High thinking skill so that the student learns to think well before making the decision himself • 11- Critical thinking strategy in education Evaluation methods • 1- Conducting theoretical and practical exams • 2- Feedback from students • 3- Conducting short practical exams in the laboratory • 4- Learning triangle <p>5- Delivering seminars by students within the curriculum</p>	Strategy
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10.Course Structure					
Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	weeks

and 2 2 Lecture practical	lecture using PowerPoint	Scalp <ul style="list-style-type: none"> ● Layers of the scalp ● Muscles of the scalp 		1	1
and 2 2 Lecture practical	lecture using PowerPoint	Sensory Nerve Supply of the Scalp <ul style="list-style-type: none"> ● Arterial Supply of the Scalp ● Venous Drainage of the Scalp ● Lymph Drainage of the Scalp ● Clinical Notes 		1	2
and 2 2 Lecture practical	lecture using PowerPoint	The orbital region <ul style="list-style-type: none"> ● Eyelids ● Movements of the Eyelids ● Lacrimal Apparatus ● Openings into the Orbital Cavity. Nerves of the Orbit <ul style="list-style-type: none"> ● Blood and Lymph Vessels of the Orbit ● Structure of the Eye 		2	4&3
and 2 2 Lecture practical	lecture using PowerPoint	<ul style="list-style-type: none"> ● Tongue ● Muscles of the Tongue Movements of the Tongue		1	5
and 2 2 Lecture practical	lecture using PowerPoint	The Nasal region External Nose Nerve Supply of the External Nose Blood Supply and Venous Drainage of the External Nose Nasal Cavity Nerve Supply of the Nasal Cavity		2	7&6

		<p>Blood Supply to the Nasal Cavity</p> <p>Venous Drainage of the Nasal Cavity</p> <p>Lymph Drainage of the Nasal Cavity. The Paranasal Sinuses</p> <p>Drainage of Mucus and Functions of Paranasal Sinuses</p> <p>Clinical Notes</p>			
and 2 2 Lecture practical	lecture using PowerPoint	<ul style="list-style-type: none"> ● Oral cavity ● The Lips ● The oral Cavity vestibule and ● Proper Sensory innervation of the ● Mouth Hard Palate & Soft palate ● Muscles of the Soft Palate ● Palatoglossal Arch & Palatopharyngeal Arch 		2	9&8
and 2 2 Lecture practical	lecture using PowerPoint	<p>Mandibular nerve</p> <p>Introduction</p> <p>Branches of the Mandibular Nerve</p> <p>Otic Ganglion</p> <p>Clinical Notes</p> <ul style="list-style-type: none"> ● Parotid gland ● Parotid Region (Boundaries) ● Parotid Gland ● Parotid Duct ● Innervation of Parotid Gland and Related Structures ● Arterial Supply ● Venous Drainage 		2	&10 11

and 2 2 Lecture practical	lecture using PowerPoint	<ul style="list-style-type: none"> ● Face ● Skin of the Face ● Muscles of the Face (Muscles of Facial Expression) ● Sensory Nerves of the Face ● Arterial Supply of the Face ● venous drainage of the Face; ● Lymphatic drainage of the face ● Facial nerve 		2	&12 13
and 2 2 Lecture practical	lecture using PowerPoint	<ul style="list-style-type: none"> ● Temporal region ● The temporal fossa anatomy ● The infratemporal fossa ● Communications ● Muscles of mastication ● The Pterygopalatine fossa ● Boundaries, Communications and openings ● Maxillary nerve ● Branches from the pterygopalatine ganglion ● THE PTERYGOPALATINE GANGLION ● THE VEINS OF THE PTERYGOPALATINE FOSSA 		2	&14 15

and 2 2 Lecture practical	lecture using PowerPoint	<ul style="list-style-type: none"> ● Temporomandibular joint ● Introduction ● The Articular Disk ● Retrodiscal Tissue ● Capsule ● Synovial Membrane ● Ligaments ● Nerve Supply ● Vascular Supply ● Movements ● Important Relations of the Temporomandibular Joint ● Clinical Notes 		2	&16 17
and 2 2 Lecture practical	lecture using PowerPoint	<ul style="list-style-type: none"> ● The neck ● Overview ● Skin of the Neck ● Fasciae of the Neck ● Superficial Cervical Fascia ● Deep Cervical Fascia ● Cervical Ligaments ● Muscles of the Neck ● Cervical Plexus ● Bones of Neck ● Blood Supply ● Key Neck Muscles 		2	&18 19
and 2 2 Lecture practical	lecture using PowerPoint	<ul style="list-style-type: none"> ● The neck ● Overview ● Skin of the Neck ● Fasciae of the Neck ● Superficial Cervical Fascia ● Deep Cervical Fascia ● Cervical Ligaments ● Muscles of the Neck ● Cervical Plexus ● Bones of Neck ● Blood Supply 		2	&20 21

		<ul style="list-style-type: none">• Key Neck Muscles			
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and 2 2 Lecture practical	lecture using PowerPoint	<ul style="list-style-type: none"> ● Root of the neck ● Muscles of the Root of the Neck ● The Thoracic Duct ● Main Nerves of the Neck ● Cervical Plexus & Brachial Plexus ● Lymph Drainage of the Head and Neck ● Veins of the Head and Neck ● Thyroid Gland ● blood supply & venous drainage ● nerve supply ● Submandibular region ● MUSCLES OF THE SUBMANDIBULAR REGION ● The submandibular gland ● Sublingual Gland 		3	22 23 24
and 2 2 Lecture practical	lecture using PowerPoint	<ul style="list-style-type: none"> ● Arteries of the neck ● Common Carotid Artery ● Carotid Sinus ● Carotid Body ● External Carotid Artery ● Internal Carotid Artery ● Subclavian Arteries (3 parts) ● Circle of Willis 		2	25 26
and 2 2 Lecture practical	lecture using PowerPoint	<ul style="list-style-type: none"> ● Brain ● Nervous System ● Gross Anatomy of the Brain ● Parts of the Brain ● Ventricular System of the Brain ● The Venous Blood Sinuses (Dural Sinuses) 		2	27 28

		<ul style="list-style-type: none"> • Blood Supply of the Brain • Cranial Meninges • Dural Nerve Supply • Dural Arterial • Supply Dural Venous • Drainage Clinical Focus 			
and 2 2 Lecture practical	lecture using PowerPoint	<ul style="list-style-type: none"> • Pharynx • Muscles of the Pharynx • Pharynx divisions • Palatine Tonsils • Waldeyer's Ring of Lymphoid Tissue. 		2	29
		<ul style="list-style-type: none"> • Larynx • Cartilages of the Larynx • Membranes and Ligaments of the Larynx • Inlet of the Larynx • Laryngeal Folds • Muscles of the Larynx • Nerve & blood Supply of the Larynx 			30

. Course Evaluation-11

Semester grade (100) is distributed as follows: lecturel semester exam 30 + 10 for the practical semester exam (for each semester)
 Final lecture exam 40 + Final practical exam 20 (for each semester)

12. Learning and Teaching Resource

- **Snell RS. Clinical Anatomy by Regions. 9th edition. Philadelphia, PA: Lippincott Williams & Wilkins, 2012.**
- **Keith LM: Clinically Oriented Anatomy, 7th edition. Wolters Kluwer, 2014. 3. Hansen JT: Netter's Clinical Anatomy, 3rd edition. E-Book with Online Access. Elsevier Health Sciences, 2014.**
- **Hansen JT: Netter's Clinical Anatomy, 3rd edition. E-Book with Online Access. Elsevier Health Sciences, 2014.**
- **<https://teachmeanatomy.inf>**

<ul style="list-style-type: none"> ➤ Gray's anatomy for students ➤ Grant's atlas of anatomy 	
<ul style="list-style-type: none"> ▪ Snell RS. Clinical Anatomy by Regions, https://teachmeanatomy.inf ▪ Grant's atlas of anatomy ▪ Netter's Atlas 	Main references (sources)
<ul style="list-style-type: none"> ▪ Snell RS. Clinical Anatomy by Regions, https://teachmeanatomy.inf ▪ Grant's atlas of anatomy 	Recommended books and references (scientific journals, reports...)
<ul style="list-style-type: none"> ▪ https://teachmeanatomy.inf/ 	<ul style="list-style-type: none"> ▪ Electronic References, Websites
<ul style="list-style-type: none"> • Developing anatomy laboratories to align with modern scientific requirements • Using modern methods in delivering course material • Keeping up with the latest developments in scientific research and incorporating them into the curriculum 	Curriculum Development Plan

Course Description Form

1. Course Name:	
Dental materials (1 st course)	
2. Course Code:	
BDEN001021 1	
3. Semester:	
annual	
4. Description Preparation Date:	
8/3/2026	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15/30	
7. Course administrator's name (mention all, if more than one name)	
Assist. prof. Azad M.R. Almuthaffer azadentist@gmail.com	
8. Course Objectives	
Course Objectives	<p>First: Cognitive Objectives</p> <p>Upon completion of the Dental Prosthetics course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain the basic concepts and scope of dental materials (Introduction). 2. Identify and describe the different forms of matter relevant to dental materials. 3. Explain the concepts of stress and strain and their significance in dental material performance.

4. Describe the physical properties of dental materials and their clinical relevance.
5. Describe the mechanical properties of dental materials and their impact on function and durability.
6. Explain the principles of rheology and its application to dental materials.
7. Describe the thermal properties of dental materials and their influence on oral performance.
8. Explain the optical properties of dental materials and their importance in esthetics.
9. Identify other relevant properties of dental materials (e.g., solubility, biocompatibility).
10. Interpret hazard symbols and explain their importance for safe handling of dental materials.
11. Describe the types and properties of gypsum products used in dentistry.
12. Explain the composition, use, and properties of casting investments.
13. Identify different types of polymers used in dentistry and explain their applications.
14. Describe denture base resins, their properties, and clinical applications.
15. Classify impression materials and explain their physical and chemical characteristics.

Secondly: Skill-based Objectives

- i. **Manipulate gypsum products** – prepare dental stone, plaster, and other gypsum materials according to manufacturer instructions for cast fabrication.
- ii. **Mix and handle casting investment** – correctly prepare and use investment materials for dental casting procedures.
- iii. **Prepare and manipulate denture base resins** – mix, shape, and cure acrylic denture bases in the laboratory.
- iv. **Mix and handle dental polymers and impression**

	<p>materials – accurately measure, mix, and apply polymers and impression materials for clinical or lab use.</p> <p>v. Apply hazard safety protocols – demonstrate correct handling, storage, and disposal of dental materials according to hazard symbols and safety guidelines.</p>
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9. Teaching and Learning Strategies

Strategy	<p>Teaching Methods:</p> <ul style="list-style-type: none"> • Lectures • Student-Centered Learning • Team Projects (student groups) • Workshops • Scientific field trips to observe various dental prosthetic cases • Learning Technologies on Campus: E-learning through uploading lectures to the college website dedicated to faculty lectures • Experiential Learning: including laboratory experiments and educational clinics within the college • Application-Based Learning: implemented through the student summer training program <p>Assessment Methods:</p> <ol style="list-style-type: none"> 1. Conducting theoretical and practical examinations 2. Student seminars presented as part of the course 3. Student feedback collected through designated evaluation forms 4. The Learning Triangle
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10. Course Structure

No.	Hours	required learning	Unit or subject name	Learning method	Evaluation
		Outcomes			method

First week	1	introduction	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Second week	1	Forms of matter	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Third week	1	Stress & strain	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fourth week	1	Physical and mechanical properties	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fifth weeks	1	Physical and mechanical properties	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Sixth week	1	rheology	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
seventh week	1	Thermal properties	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback

Ninth week	1	Optical properties	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Tenth week	1	Other properties	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Eleventh weeks	1	Hazard symbols	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Twelfth week	1	Gypsum products	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
thirteenth week	1	Casting investment	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fourteenth Week	1	polymers	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fifteenth Week	1	Denture base resins	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback

11.Course Evaluation

The grade of the semester (100) is distributed as follows

The total course grade (100 marks) is allocated as follows: 40% for coursework

(including 20% practical requirements and 20% midterm written exam), and 60% for the final assessment (including 40% final written exam and 20% practical requirements and seminars).

12 Learning and Teaching Resources

Required textbooks (methodology, if any)

Key references (sources)	Powers JM, Sakaguchi RL. Craig's restorative dental materials 12th edition. USA: Mosby Elsevier, 2006
Recommended books and references (scientific journals, reports...)	Anusavice KJ. Philips' science of dental materials 11th edition. China:Saunders an imprint of Elsevier Missouri, 2007. Mannappallil JJ. Basic dental materials 2nd edition. New Delhi: Jaypee Brothers Medical Publishers (p) Ltd., 2007.
Electronic references, websites	https://www.youtube.com/@AzadAlmuthaffer
Course Development Plan	<ul style="list-style-type: none"> ● Updating scientific content: ● Practical and applied training:

Course Description Form

1. Course Name:	
Dental materials (2 nd course)	
2. Course Code:	
BDEN001031 2	
3. Semester:	
annual	
4. Description Preparation Date:	
8/3/2026	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15/30	
7. Course administrator's name (mention all, if more than one name)	
Assist. prof. Azad M.R. Almuthaffer azadentist@gmail.com	
8. Course Objectives	
Course Objectives	<p>First: Cognitive Objectives</p> <p>Upon completion of the Dental Prosthetics course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain the properties and applications of rigid impression materials in dentistry. 2. Describe hydrocolloid elastic impression materials and their clinical use. 3. Identify elastomeric impression materials and explain their advantages in dental procedures.

4. Explain the composition, classification, and properties of dental metal alloys.
5. Classify dental filling materials and describe their indications and properties.
6. Describe the composition, properties, and clinical use of amalgam filling material.
7. Explain the composition, properties, and clinical applications of composite filling materials.
8. Identify CAD/CAM materials used in digital dentistry and describe their characteristics and applications.
9. Describe dental cements, their types, properties, and clinical applications.
10. Explain preventive dental materials and their role in maintaining oral health.
11. Describe dental waxes, their types, properties, and applications in prosthodontics and laboratory procedures.
12. Explain endodontic materials and their uses in root canal therapy.
13. Describe relining materials and their function in the maintenance of dentures.
14. Explain implant materials, their properties, and considerations for clinical use.
15. Describe finishing and polishing materials, denture cleansers, and adhesives, and their role in prosthetic maintenance and patient care.

Secondly: Skill-based Objectives

- 1. Manipulate and apply impression materials – prepare and handle rigid, hydrocolloid, and elastomeric impression materials for accurate dental impressions.**
- 2. Mix and apply dental cements – correctly measure, mix, and place various dental cements for clinical procedures.**
- 3. Prepare and place restorative materials – handle**

	<p>amalgam and composite filling materials for cavity restorations.</p> <p>4. Use denture finishing, polishing, and adhesive materials – perform finishing and polishing of dentures and apply cleansers or adhesives properly.</p> <p>5. Manipulate endodontic and relining materials – prepare and apply materials for root canal therapy and denture relining procedures.</p>
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9. Teaching and Learning Strategies

Strategy	<p>Teaching Methods:</p> <ul style="list-style-type: none"> • Lectures • Student-Centered Learning • Team Projects (student groups) • Workshops • Scientific field trips to observe various dental prosthetic cases • Learning Technologies on Campus: E-learning through uploading lectures to the college website dedicated to faculty lectures • Experiential Learning: including laboratory experiments and educational clinics within the college • Application-Based Learning: implemented through the student summer training program
	<p>Assessment Methods:</p> <ol style="list-style-type: none"> 1. Conducting theoretical and practical examinations 2. Student seminars presented as part of the course 3. Student feedback collected through designated evaluation forms 4. The Learning Triangle

10. Course Structure

No.	Hours	required learning	Unit or subject name	Learning method	Evaluation
		Outcomes			method

First week	1	rigid impression materials	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Second week	1	hydrocolloid elastic impression materials	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Third week	1	elastomeric impression materials	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fourth week	1	dental metal alloy	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fifth weeks	1	classification of filling materials	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Sixth week	1	amalgam filling material	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback

seventh week	1	composite filling materials	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Ninth week	1	cad/cam materials	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Tenth week	1	dental cements	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Eleventh weeks	1	preventive materials	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Twelfth week	1	dental waxes	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
thirteenth week	1	endodontic materials	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fourteenth Week	1	relining materials	dental materials	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fifteenth Week	1	implant	dental materials	Theoretical Lectures,	Theoretical and Practical Examinations,

		materials		Practical Laboratories	Seminars, Student Feedback
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11.Course Evaluation	
The grade of the semester (100) is distributed as follows The total course grade (100 marks) is allocated as follows: 40% for coursework (including 20% practical requirements and 20% midterm written exam), and 60% for the final assessment (including 40% final written exam and 20% practical requirements and seminars).	
12 Learning and Teaching Resources	
Required textbooks (methodology, if any)	
Key references (sources)	Powers JM, Sakaguchi RL. Craig's restorative dental materials 12th edition. USA: Mosby Elsevier, 2006
Recommended books and references (scientific journals, reports...)	Anusavice KJ. Philips' science of dental materials 11th edition. China:Saunders an imprint of Elsevier Missouri, 2007. Mannappallil JJ. Basic dental materials 2nd edition. New Delhi: Jaypee Brothers Medical Publishers (p) Ltd., 2007.
Electronic references, websites	https://www.youtube.com/@AzadAlmuthaffer
Course Development Plan	<ul style="list-style-type: none"> • Updating scientific content: • Practical and applied training:

Course Description Form

1. Course Name:	
Oral Histology and Embryology	
2. Course Code:	
BDEN001019 1	
3. Semester / Year:	
1 st semester 2025–2026	
4. Description Preparation Date:	
8 / 3 / 2026	
5. Available Attendance Forms:	
weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
The total number of theoretical hours is 30 hours and the practical hours is 30 hours. The number of units is 2 for theoretical and 2 for practical.	
7. Course administrator's name (mention all, if more than one name)	
Name: lecturer Dr. Ahemd Dheyaa AL Agele Email: ahmed.al-agele@uobabylon.edu.iq	
8. Course Objectives	
Course Objectives	Course Objectives Cognitive objectives 1– To learn all the chemical, physical properties and histological composition of oral tissues. 2– Knowing the clinical application and consideration of each part Of oral tissues.
9. Teaching and Learning Strategies	
Strategy	Creative thinking according to the student’s ability. • Global thinking skill strategy. • Creative and critical thinking in learning. Evaluation methods • Future and scientific examination procedures • Feedback review from students • Conducting experimental examinations in educational clinic for pathological cases in all dental specialties • University education
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 st	2 theoretical units + 2 practical units	Learn Embryogenesis: first week, ovulation, fertilization and implantation	Embryogenesis first week, ovulation, fertilization and implantation	Theoretical and practical lectures • Conducting seminars • Use clarification methods	Short quiz Examination semester Theoretical Practical Exam.
2 nd	2 theoretical units + 2 practical units	Learn the pattern of growth and development	2 nd week, Bilaminar germ layer		
3 rd	2 theoretical units + 2 practical units	Learn the pattern of growth and development	3 rd week trilaminar germ layer: gastrulation and neurulation		
fourth	2 theoretical units + 2 practical units	Learn the pattern of growth and development	Development of head and neck (pharyngeal arch pouch & cleft		
fifth	2 theoretical units + 2 practical units	Learn the pattern of growth and development	Development of face and anomalies		
six	2 theoretical units + 2 practical units	Learn the pattern of growth and development	Development of tongue and anomalies		

seven	2 theoretical units + 2 practical units	Learn the pattern of growth and development	Development of palate and anomalies		
eight	2 theoretical units + 2 practical units	Learn the methods of slide preparation to differentiate the slides view	Slide preparation		
nine	2 theoretical units + 2 practical units	Learn the pattern of growth and development	Tooth development and developmental disturbances of teeth		
ten	2 theoretical units + 2 practical units	Learn the pattern of growth and development	Dentinogenesis and dentin structure		
eleven	2 theoretical units + 2 practical units	Learn the pattern of growth and development	Amelogenesis, Enamel structure		
twelve	2 theoretical units + 2 practical units	Learn the pattern of growth and development	Clinical consideration for dentin and enamel		
thirteen	2 theoretical units + 2 practical units	Learn the pattern of growth and development	Dental Pulp		
fourteen	2 theoretical units + 2 practical units	Learn the pattern of growth and development	Cementum and clinical consideration		
fifteen	2 theoretical units + 2 practical units	Learn the pattern of growth and development	Root formation, Cementogenesis		

11. Course Evaluation

Semester (40) is now distributed: 20 marks for the theoretical half semester, 20 marks for the practical half semester

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (sources)

Nanci, A., 2007. *Ten cate's oral histology-pageburst on vital source: development, structure, and function*. Elsevier Health Sciences.

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

Johnson, D.R., 1986. Orban's Oral Histology and Embryology. *Journal of Anatomy*, 148, p.268.

Chiego Jr, D.J., 2013. *Essentials of Oral Histology and Embryology-E-Book: A Clinical Approach*. Elsevier Health Science

Electronic References, Websites

Course Description Form

1. Course Name:	
Oral Histology and Embryology	
2. Course Code:	
BDEN001028 2	
3. Semester / Year:	
2 nd semester 2025–2026	
4. Description Preparation Date:	
8 /3 / 2026	
5. Available Attendance Forms:	
weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
The total number of theoretical hours is 30 hours and the practical hours is 30 hours. The number of units is 2 for theoretical and 2 for practical.	
7. Course administrator's name (mention all, if more than one name)	
Name: lecturer Dr. Ahemd Dheyaa AL Agele Email: ahmed.al-agele@uobabylon.edu.iq	
8. Course Objectives	
Course Objectives	Course Objectives Cognitive objectives 1– To learn all the chemical, physical properties and histological composition of oral tissues. 2– Knowing the clinical application and consideration of each part Of oral tissues.
9. Teaching and Learning Strategies	
Strategy	Creative thinking according to the student’s ability. • Global thinking skill strategy. • Creative and critical thinking in learning. Evaluation methods • Future and scientific examination procedures • Feedback review from students • Conducting experimental examinations in educational clinics for pathological cases in all dental specialties • University education
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 st	2 theoretical units + 2 practical units	Learn the physical and chemical properties of the tissue	Periodontal ligaments	Theoretical and practical lectures • Conducting seminars • Use clarification methods	Short quiz Examination semester Theoretical Practical Exam.
2 nd	2 theoretical units 2 practical units	Learn the physical and chemical properties of the tissue	Principles fiber of pdl and gingival fibers		
3 rd	2 theoretical units + 2 practical units	Learn the physical and chemical properties of the tissue	Alveolar bone		
fourth	2 theoretical units + 2 practical units	Learn the physical and chemical properties of the tissue	Bone formation and resorption		
fifth	2 theoretical units + 2 practical units	Learn the physical and chemical properties of the tissue	Proteins involve in mineralization of bone and dentin		
six	2 theoretical units + 2 practical units	Learn the physical and chemical properties of the tissue	Oral mucosa and their types		

seven	2 theoretical units + 2 practical units	Learn the physical and chemical properties of the tissue	Gingiva and dentogingival junction		
eight	2 theoretical units + 2 practical units	Learn the mechanism of teeth eruption	Eruption of teeth		
nine	2 theoretical units + 2 practical units	Learn the mechanism of teeth shedding	Shedding of teeth		
ten	2 theoretical units + 2 practical units	Learn the physical and chemical properties of the tissue	Salivary gland		
eleven	2 theoretical units + 2 practical units	Learn the physical and chemical properties of the tissue	Salivary proteins		
twelve	2 theoretical units + 2 practical units	Learn the physical and chemical properties of the tissue	TMJ		
thirteen	2 theoretical units + 2 practical units	Learn the physical and chemical properties of the tissue	Maxillary sinus		
fourteen	2 theoretical units + 2 practical units	Learn the pattern slide preparation with chemical markers	Histochemistry		

fifteen	2 theoretical units + 2 practical units	Learn the pattern of growth and development	Age changes of soft and hard tissues		
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11. Course Evaluation

Semester (40) is now distributed: 20 marks for the theoretical half semester, 20 marks for the practical half semester

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (sources)

Nanci, A., 2007. *Ten cate's oral histology pageburst on vital source: development, structure, and function*. Elsevier Health Sciences.

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

Johnson, D.R., 1986. Orban's Oral Histology and Embryology. *Journal of Anatomy*, 148, p.268.

Chiego Jr, D.J., 2013. *Essentials of Oral Histology and Embryology-E-Book: A Clinical Approach*. Elsevier Health Sciences.

Electronic References, Websites

Course Description Form

Baath Party crime. Course Name .1	
Course Code: BDEN001023 1	
.3	
Semester / Year:	
2025 - 2026	
Description Preparation Date: 8/3/2026	
.4	
Available Attendance Forms: weekly	
.5	
2 /30 Number of Credit Hours (Total) / Number of Units (Total):	
hours lecture 30	
.6	
Course administrator's name (mention all, if more than one name) .7	
Assistant Teacher Zainab Abdul Khalaf Hassan : name : Email	
Course Objectives .8	
<ul style="list-style-type: none"> • Cognitive objectives 1-Enabling students to learn about the many crimes committed by the dissolved Baath regime against various components and spectrums of the Iraqi people to establish awareness among students to reject all forms of injustice and tyranny of these dictatorial regimes and to demand all civil and political rights guaranteed by the constitution. 2-●Students' knowledge of the content of local and international laws that guarantee human rights and freedom of expression, in addition to raising their level of legal culture to reject any form of violations inside and outside the country to which they belong. ●3- Introducing the laws of the International Criminal Court and the laws of the Iraqi Supreme Criminal Court in 2005, documenting the violations of the defunct Baath regime against humanity during its term of rule. 	<p>Course Objectives</p>
Teaching and Learning Strategies .9	
<ul style="list-style-type: none"> • Giving lectures, using discussion and dialogue methods, brainstorming, quick tests • Evaluation methods • 1- Conducting theoretical exams • 2- Feedback from students 	<p>Strategy</p>

- 3- Learning triangle
- 4- Delivering seminars by students within the curriculum

Course Structure.10

First Course

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz 	lecture using PowerPoint	Violation of rights and freedoms. A descriptive overview of the political systems in Iraq 1921-2003	The concept of crimes Definition of crimes in language and terminology	Lecture2	First
<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz 	lecture using PowerPoint	Violations of public rights and freedoms by the Baath regime	Crimes Sections Baath regime crimes according to the documentation of the Iraqi Criminal Court Law 2005	Lecture2	Second
<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz 	lecture using PowerPoint	The impact of the Baath regime's behavior on society	Types of international crimes. Escapes issued by the Supreme Criminal Court. Psychological and social crimes and their effects	Lecture 2	Third
<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz 	lecture using PowerPoint	The impact of the transitional phase in combating authoritarian politics	The most prominent violations of the Baathist regime in Iraq (psychological crimes. (Mechanisms of crimes Effects of psychological crimes, social crimes, militarization of society	Lecture2	four
<ul style="list-style-type: none"> • Discussion • Asking questions directly • Conducting a short quiz 	lecture using PowerPoint	Psychological field	The Baath regime's position on religion Violation of Iraqi laws	Lecture2	five

short quiz					
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	.Social field	Pictures of human rights violations and crimes of the authorities Some decisions on political and military violations Prison and detention places of the regime	2 Lecture	six
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Test of tide	Environmental crimes of the Baath regime in Iraq Environmental crimes of the Baath regime in Iraq	Lecture2	seven
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Religion and State	Destruction of cities and villages Scorched earth policy	Lecture2	eighth
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Culture, media and the militarization of society	Drying the marshes Destroying palm groves	Lecture2	nine
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	The impact of repression and wars on the environment and population, the use of internationally prohibited weapons and environmental pollution	Uprooting trees and crops Events of the genocide graves of the Baathist regime in Iraq	Lecture2	ten
Discussion • Asking • questions directly	lecture using PowerPoint	scorched earth policy	Events of the genocide graves of the Baath regime in Iraq	Lecture2	Eleven

Conducting a • short quiz					
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Drying of the marshes and forced migration	Events of the genocide graves of the Baath regime in Iraq	Lecture2	Twelve
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Destruction of agricultural and animal environment and radioactive contamination	Chronological classification of genocide graves in Iraq for the period 1963-2003	Lecture2	Thirteen
Discussion • Asking • questions directly Conducting a • short quiz	lecture using PowerPoint	Mass graves and bombing of places of worship	Chronological classification of genocide graves in Iraq for the period 1963-2003	Lecture2	Fourteen
		Semester exam	-		fifteen

Course Evaluation .11

The semester grade (100) is distributed as follows: The semester theoretical exam 30

The final theoretical exam 70

The grade out of 100 is distributed according to the tasks assigned to the student, such as attendance, daily preparation, daily, oral and monthly exams, and the final exam for the semester.

Learning and Teaching Resources .12

Crimes of the Baath regime in Iraq	Required textbooks (curricular books, if any)
Political Prisoners Foundation Archive	Main references (sources)
	Recommended books and references (scientific journals,

	reports...)
	Electronic References, Websites
	Curriculum Development Plan

Course Description Form

1. Course Name:	
prosthodontics (1 st course)	
2. Course Code:	
BDEN001024 1	
3. Semester:	
annual	
4. Description Preparation Date:	
8/3/2026	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15/30	
7. Course administrator's name (mention all, if more than one name)	
Assist. prof. Azad M.R. Almuthaffer azadentist@gmail.com Lecturer Dr. Hussain Kareem	
8. Course Objectives	
Course Objectives	<p>First: Cognitive Objectives</p> <p>Upon completion of the Dental Prosthetics course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain the purpose and use of a facebow in complete denture fabrication. 2. Describe the procedures and principles of mounting casts on a dental articulator. 3. Identify criteria for the selection of artificial anterior teeth and their clinical significance. 4. Identify criteria for the selection of artificial posterior

teeth and their clinical relevance.

5. Explain the concept of complete denture occlusion and its importance for function and esthetics.
6. Describe the factors affecting occlusion in complete dentures, including patient-related and mechanical factors.
7. Explain the principles of anterior teeth arrangement in complete denture construction.
8. Explain the principles of posterior teeth arrangement in complete denture construction.
9. Describe the steps and objectives of waxing and carving trial dentures.
10. Explain the processing procedures of the trial denture, including objectives and materials used.
11. Describe methods for occlusal correction of complete dentures and the rationale behind them.
12. Explain the finishing and polishing procedures for complete dentures and their clinical significance.
13. Identify techniques for repairing a complete denture and their indications.
14. Explain the principles and procedures of relining a complete denture.
15. Explain the principles and procedures of rebasing a complete denture.

Secondly: Skill-based Objectives

1. Using a facebow – correctly record maxillomandibular relationships and transfer them to a dental articulator.
2. Mounting casts on a dental articulator – accurately mount maxillary and mandibular casts for occlusion simulation.
3. Arranging artificial teeth – perform proper arrangement of anterior and posterior teeth according to occlusal principles.
4. Waxing and carving trial dentures – shape, contour,

and carve wax dentures for trial insertion.

5. Finishing, polishing, and occlusal adjustment of complete dentures – perform clinical and laboratory procedures to refine dentures for proper fit and function.

9. Teaching and Learning Strategies

Strategy

Teaching Methods:

- Lectures
- Student-Centered Learning
- Team Projects (student groups)
- Workshops
- Scientific field trips to observe various dental prosthetic cases
- Learning Technologies on Campus: E-learning through uploading lectures to the college website dedicated to faculty lectures
- Experiential Learning: including laboratory experiments and educational clinics within the college
- Application-Based Learning: implemented through the student summer training program

Assessment Methods:

1. Conducting theoretical and practical examinations
2. Student seminars presented as part of the course
3. Student feedback collected through designated evaluation forms
4. The Learning Triangle

10. Course Structure

No.	Hours	required learning	Unit or subject name	Learning method	Evaluation
		Outcomes			method

First week	1	Facebow	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Second week	1	Mounting	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Third week	1	Selection Of Artificial Anterior Teeth	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fourth week	1	Selection Of Artificial Posterior Teeth	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fifth weeks	1	Concept of complete denture occlusion	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Sixth week	1	Factors of occlusion	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
seventh week	1	Arrangement Of Anterior Teeth	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback

Ninth week	1	Arrangement Of Posterior Teeth	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Tenth week	1	Waxing And Carving	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Eleventh weeks	1	Processing Of The trial Denture	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Twelfth week	1	Processing of the trial denture	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
thirteenth week	1	Occlusal Correction	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fourteenth Week	1	Finishing And Polishing Of Complete Denture	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fifteenth Week	1	Repair Of Complete Denture	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback

11.Course Evaluation

The grade of the semester (100) is distributed as follows

The total course grade (100 marks) is allocated as follows: 40% for coursework

(including 20% practical requirements and 20% midterm written exam), and 60% for the final assessment (including 40% final written exam and 20% practical requirements and seminars).

12 Learning and Teaching Resources

Required textbooks (methodology, if any)

Key references (sources)	Zarb G., Hobkirk J.A., Eckert S.E., Jacob R.F.: Prosthodontic treatment for edentulous patients. 3 rd . edition, 2014. Elsevier Inc, Mosby, India.
Recommended books and references (scientific journals, reports...)	Arthur O. Rahn, John R. Ivanhoe, Kevin D. Plummer: Textbook of complete denture. 6 th . edition, 2009. PMPH, USA. Deepak Nallaswamy: Textbook of prosthodontics. 2011. Jaypee brothers medical publishers (P) LTD, India
Electronic references, websites	https://www.youtube.com/@AzadAlmuthaffer
Course Development Plan	<ul style="list-style-type: none"> ● Updating scientific content: ● Practical and applied training:

Course Description Form

1. Course Name:	
prosthodontics (2 nd course)	
2. Course Code:	
BDEN001033 2	
3. Semester:	
annual	
4. Description Preparation Date:	
8/3/2026	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15/30	
7. Course administrator's name (mention all, if more than one name)	
Assist. prof. Azad M.R. Almuthaffer azadentist@gmail.com Lecturer Dr. Hussain Kareem	
8. Course Objectives	
Course Objectives	<p>First: Cognitive Objectives</p> <p>Upon completion of the Dental Prosthetics course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain the basic concepts and scope of complete denture prosthodontics (Introduction). 2. Identify extraoral anatomical landmarks used in prosthetic records and describe their clinical relevance. 3. Identify intraoral maxillary anatomical landmarks and explain their clinical significance in complete denture construction.

4. Identify intraoral mandibular anatomical landmarks and explain their clinical significance in complete denture construction.
5. Describe the role of anatomical landmarks in complete denture fabrication.
6. Explain the principles and techniques of complete denture impressions.
7. Compare different methods used for complete denture impressions and their indications.
8. Define and describe the functions of record bases and occlusion rims in complete denture construction.
9. Explain the anatomy and physiology of the temporomandibular joint and its relevance to prosthodontics.
10. Identify mandibular axes and describe mandibular movements and their importance in denture function.
11. Define orientation relation and explain its role in establishing jaw relationships.
12. Explain vertical jaw relation and its clinical significance in denture construction.
13. Describe the various methods of recording vertical jaw relation and their applications.
14. Define horizontal jaw relation and explain techniques for its accurate recording.
15. Identify different types of dental articulators and describe their uses in simulating jaw movements for complete dentures.

Secondly: Skill-based Objectives

1. **Taking complete denture impressions** – applying principles and techniques to obtain accurate maxillary and mandibular impressions.
2. **Fabricating and adjusting record bases and occlusion rims** – creating stable bases and rims for jaw relation recording.
3. **Recording vertical jaw relation** – performing clinical procedures to measure and record vertical dimensions of

	<p>occlusion.</p> <p>4. Recording horizontal jaw relation (centric relation) – performing clinical techniques to establish accurate horizontal jaw relationships.</p> <p>5. Using dental articulators – mounting casts and simulating mandibular movements to replicate patient occlusion.</p>
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9. Teaching and Learning Strategies

Strategy	<p>Teaching Methods:</p> <ul style="list-style-type: none"> • Lectures • Student-Centered Learning • Team Projects (student groups) • Workshops • Scientific field trips to observe various dental prosthetic cases • Learning Technologies on Campus: E-learning through uploading lectures to the college website dedicated to faculty lectures • Experiential Learning: including laboratory experiments and educational clinics within the college • Application-Based Learning: implemented through the student summer training program <p>Assessment Methods:</p> <ol style="list-style-type: none"> 1. Conducting theoretical and practical examinations 2. Student seminars presented as part of the course 3. Student feedback collected through designated evaluation forms 4. The Learning Triangle
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10. Course Structure

No.	Hours	required learning	Unit or subject name	Learning method	Evaluation
		Outcomes			method

First week	1	Introduction	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Second week	1	Extra oral anatomical landmarks that used in prosthetic records	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Third week	1	Intraoral maxillary anatomical landmarks and their clinical significance	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fourth week	1	Intraoral mandibular anatomical landmarks and their clinical significance Anatomical landmarks	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fifth weeks	1	Complete Denture Impression	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Sixth week	1	Complete Denture Impression	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback

seventh week	1	Complete Denture Impression	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Ninth week	1	Record Base & Occlusion Rims	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Tenth week	1	Anatomy And Physiology Of Temporomandibular Joint	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Eleventh weeks	1	Mandibular axes & mandibular movements	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Twelfth week	1	Orientation relation	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
thirteenth week	1	Vertical jaw Relation	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fourteenth Week	1	Methods of recording vertical relation	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fifteenth Week	1	Horizontal Jaw Relation	prosthodontics	Theoretical Lectures, Practical	Theoretical and Practical Examinations, Seminars,

				Laboratories	Student Feedback
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11. Course Evaluation

The grade of the semester (100) is distributed as follows

The total course grade (100 marks) is allocated as follows: 40% for coursework (including 20% practical requirements and 20% midterm written exam), and 60% for the final assessment (including 40% final written exam and 20% practical requirements and seminars).

12 Learning and Teaching Resources

Required textbooks (methodology, if any)

Key references (sources)	Zarb G., Hobkirk J.A., Eckert S.E., Jacob R.F.: Prosthodontic treatment for edentulous patients. 3 rd . edition, 2014. Elsevier Inc, Mosby, India.
Recommended books and references (scientific journals, reports...)	Arthur O. Rahn, John R. Ivanhoe, Kevin D. Plummer: Textbook of complete denture. 6 th . edition, 2009. PMPH, USA. Deepak Nallaswamy: Textbook of prosthodontics. 2011. Jaypee brothers medical publishers (P) LTD, India
Electronic references, websites	https://www.youtube.com/@AzadAlmuthaffer
Course Development Plan	<ul style="list-style-type: none"> ● Updating scientific content: ● Practical and applied training:

Course Description Form

1. Course Name:
Microbiology 1
2. Course Code:
BDEN001035 1
3. Semester:
Course 2025-2026
4. Description Preparation Date:
2026/3/8
5. Available Attendance Forms:
Mandatory weekly attendance (theoretical + practical)
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hrs. theory + 30 hrs. practical / 3 units
7. Course administrator's name (mention all, if more than one name)
<p>Prof. Dr. Bahaa Hamdi Hakim, dent.bahai.hamdiy@uobabylon.edu.iq</p> <p>Prof. Dr. Nebras Nasrallah, dent.nibras.nassr-allah@uobabylon.edu.iq</p> <p>Assist Prof. Dr. Rasha Jasim Mousa</p> <p>Dent.rasha.jasim@uobabylon.edu.iq</p> <p>Assist Prof. Dr. Zainab Khader Ahmed, dent.zainab.almahdi@uobabylon.edu.iq</p> <p>Assist Prof. Dr. Fatima Malik Abboud dent.fatima.malik@uobabylon.edu.iq</p> <p>Assist Prof. Dr. Huda Abbas Mohammed hoda.jerawi@uobabylon.edu.iq</p> <p>Assist Prof. Dr. Luma J. Witwit dent.luma.jasim@uobabylon.edu.iq</p> <p>Assistant lecturer Dawlat Abdul Bari</p> <p>den110.a.a@uobabylon.edu.iq</p> <p>Lecturer Dr. Zainab Hashim Nasser</p> <p>den749.zanab.hashim@uobabylon.edu.iq</p> <p>Lecture Dr. Doaa Adil Abood</p> <p>Den984.duaa.adel@uobabylon.edu.iq</p> <p>Assistant lecturer Zahraa Hassan Ali dent.zahraa.hassan@uobabylon.edu.iq</p>

Assistant lecturer Haider Abdul Sattar Jabbar

Assistant lecturer Bilal Muhammad Obaid den559.belal.mohammed@uobabylon.edu.iq

Assistant lecturer Zahraa Kadium Ali den828.zuhraa.kadim@uobabylon.edu.iq

Assistant lecturer Teeba Habeeb Sify

den257.tybh.habeeb@uobabylon.edu.iq

Assistant lecture Eman Abbas Aboud

Den947.eman.abbas@uobabylon.edu.iq

8. Course Objectives

Course Objectives

First: Cognitive Objectives

1. To give the students full information's about the pathogenic microorganisms and their diagnosis
2. Enable students to get acquainted with microbiology and its divisions, which include the study of bacteriology, immunology and viruses, in addition to studying parasites and fungi, especially those related to oral diseases.
3. Enable students to identify the different types of bacteria, positive and negative for gram stain, phenotypic characteristics, characteristics of each bacterial type, pathogenic factors, virulence, enzymes and various toxins that cause disease development, study the ways of transmission of each bacterial type and how to control the spread of epidemic diseases.
4. • Enable students to acquire the skills of diagnosis and differentiation of various bacterial diseases using microscopy, microbial culture and serological tests aimed at bacterial diagnosis, as well as the use of various laboratory experiments to diagnose fungal infections, study of immunological and viral tests and knowledge of the sensitivity of microbial isolates to the most important antibiotics for use for treatment
5. Enable students to understand the principles of immunology, which include identifying the sections of immunology and its components, immune cells, their development and their role in defending against various types of diseases, types of antibodies, immune factors present in the mouth and saliva, allergic reactions and their mechanisms, the most important autoimmune diseases, phagocytosis, and the role of the complement factor.
6. Enable students to learn about the science of viruses, the characteristics of viruses, their types and divisions, and a

	<p>detailed study of viral diseases related to the dental profession, such as hepatitis B virus, oral viruses, influenza virus, AIDS, its spread methods, its forms, and its role in disease development and control, especially by using vaccines.</p> <p>7. Enable students to know the relationship between various microorganisms in the human body, the importance of their natural existence and the factors that turn them into pathogenicity.</p> <p>Secondly: Skill-based Objectives</p> <p>1- The student identifies the different microorganisms types.</p> <p>2- The student distinguishes between the methods used for microbiological diagnosis.</p>
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9. Teaching and Learning Strategies

Strategy	<p>1-Thinking skill according to the student's ability so that the student can rely on his abilities to think reasonably</p> <p>2-Understanding when, how, what and how to think to improve the ability to think.</p> <p>3-High thinking skill so that the student learns to think well before making a decision himself</p> <p>4-Critical thinking strategy in education</p> <p>Evaluation methods</p> <p>1- Conducting theoretical and practical exams</p> <p>2- Feedback from students</p> <p>3- Conducting short practical exams in the laboratory</p> <p>4- Learning triangle</p>
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10. Course Structure (First course)

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First week	2 theoretical + 2 practical		Morphology, Ultra structures, physiology and metabolism of microorganisms:- -Eukaryotic & Prokaryotic cells -Cell structure of prokaryotes -Comparison between G+ve & G-ve cell wall -Microbial growth, growth curve -Metabolism of microorganisms Molecular biology & bacterial	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam

			genetics		
Second week	2 theoretical + 2 practical		Sterilization and Disinfection	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Third week	2 theoretical + 2 practical		Antibiotic and chemotherapy:- -Antibiotic, sources -Mode of action of antibiotic -Anti-microbial sensitivity tests -Bacterial resistance -Prophylactic use	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Fourth week	2 theoretical + 2 practical		Host-parasite relationship & Nosocomial infection -Symbiosis, Commensalism, Amphibiosis, Antagonistic -Sources of infection in hospital -Post-operative wound infection, burns infections	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Fifth weeks	2 theoretical + 2 practical		Immunology -Non- Specific defense mechanism -Natural, acquired, active, passive immunity -Antigens, Immunogens, Immunogenicity, Antigenic determine -Specific immune system, humoral & cellular components system -Antigen- antibody reaction -Serological tests Oral Immunity	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam

Sixth week	2 theoretical + 2 practical		Oral Bacteriology Streptococci of oral cavity -Pyogenic Streptococci -Lancefield group -Pathogenesis of streptococci -Epidemiology, treatment and prevention -Viridans streptococci -Pneumococci	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
seventh week	2 theoretical + 2 practical		Staphylococci of oral cavity -Virulence factors- -Pathogenesis- -Epidemiology, treatment and prevention	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Eighth week	2 theoretical + 2 practical		G- negative diplococcic & vellionella Nesseria gonorrhoea, N. meningitis	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Ninth week	2 theoretical + 2 practical		Corynebacterium Diphtheriae & Diphtheroids	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Tenth week	2 theoretical + 2 practical		Mycobacterium -Tuberculosis & Lepae	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Eleventh weeks	2 theoretical + 2 practical		Lactobacilli & Actinomyces	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Twelfth week	2 theoretical + 2 practical		Bacillus and clostridium - <u>B. subtilis</u> , <u>B. anthracis</u> <u>C. perfringens</u> , <u>C. tetani</u> , <u>C.</u>	Theoretical lecture using Power Point and the Practical	Short and oral exams, semester and

			<u>botulinum</u>	lectures Examining slides using a microscope	final exam
thirteenth week	2 theoretical + 2 practical		Enterobacteriaceae -E.coli, Salmonella, Shigella, Enterobacter, Klebsiella, proteus, Yersinia	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Fourteenth Week	2 theoretical + 2 practical		Brucella, Haemophilus, Vibrio	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Fifteenth Week			- Agregatibacter, porphyromonas, prevotella, Bacteroids		

11. Course Evaluation	
Semester grade (100) is distributed as follows: Theoretical semester exam 30 + 10 for the practical semester exam (for each semester) Final theoretical exam 40 + Final practical exam 20 (for each semester)	
12 Learning and Teaching Resources	
Required textbooks (methodology, if any)	
Key references (sources)	-Oral microbiology , William ,A. Mosby,1982.
Recommended books and references (scientific journals, reports...)	-Lakshman, S.“Essential of Microbiology for Dentistry, Churchillilivinostone, 3rd edition, 2010.
Electronic references, websites	-Ivan Roitt, D.andBrostoiff, M.“Immunology,,,,6th edition .Mosby com.,2001
Course Development Plan	<ul style="list-style-type: none"> • Developing tissue laboratories to suit the requirements of scientific modernity • Follow modern methods in presenting scientific material • Search for the latest developments in scientific research and add them to the curriculum

Course Description Form

1. Course Name:
Microbiology 2
2. Course Code:
BDEN001043 2
3. Semester:
Course 2025-2026
4. Description Preparation Date:
2026/3/8
5. Available Attendance Forms:
Mandatory weekly attendance (theoretical + practical)
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hrs. theory + 30 hrs. practical / 3 units
7. Course administrator's name (mention all, if more than one name)
<p>Prof. Dr. Bahaa Hamdi Hakim, dent.bahai.hamdiy@uobabylon.edu.iq</p> <p>Prof. Dr. Nebras Nasrallah, dent.nibras.nassr-allah@uobabylon.edu.iq</p> <p>Assist Prof. Dr. Rasha Jasim Mousa Dent.rasha.jasim@uobabylon.edu.iq</p> <p>Assist Prof. Dr. Zainab Khader Ahmed, dent.zainab.almahdi@uobabylon.edu.iq</p> <p>Assist Prof. Dr. Fatima Malik Abboud dent.fatima.malik@uobabylon.edu.iq</p> <p>Assist Prof. Dr. Huda Abbas Mohammed hoda.jerawi@uobabylon.edu.iq</p> <p>Assist Prof. Dr. Luma J. Witwit dent.luma.jasim@uobabylon.edu.iq</p> <p>Assistant lecturer Dawlat Abdul Bari den110.a.a@uobabylon.edu.iq</p> <p>Lecturer Dr. Zainab Hashim Nasser den749.zanab.hashim@uobabylon.edu.iq</p> <p>Lecture Dr. Doaa Adil Abood Den984.duaa.adel@uobabylon.edu.iq</p> <p>Assistant lecturer Zahraa Hassan Ali dent.zahraa.hassan@uobabylon.edu.iq</p> <p>Assistant lecturer Haider Abdul Sattar Jabbar</p>

Assistant lecturer Bilal Muhammad Obaid den559.belal.mohammed@uobabylon.edu.iq

Assistant lecturer Zahraa Kadium Ali den828.zuhraa.kadim@uobabylon.edu.iq

Assistant lecturer Teeba Habeeb Sify

den257.tybh.habeeb@uobabylon.edu.iq

Assistant lecture Eman Abbas Aboud

Den947.eman.abbas@uobabylon.edu.iq

8. Course Objectives

Course Objectives

First: Cognitive Objectives

1. To give the students full information's about the pathogenic microorganisms and their diagnosis
2. Enable students to get acquainted with microbiology and its divisions, which include the study of bacteriology, immunology and viruses, in addition to studying parasites and fungi, especially those related to oral diseases.
3. Enable students to identify the different types of bacteria, positive and negative for gram stain, phenotypic characteristics, characteristics of each bacterial type, pathogenic factors, virulence, enzymes and various toxins that cause disease development, study the ways of transmission of each bacterial type and how to control the spread of epidemic diseases.
4. • Enable students to acquire the skills of diagnosis and differentiation of various bacterial diseases using microscopy, microbial culture and serological tests aimed at bacterial diagnosis, as well as the use of various laboratory experiments to diagnose fungal infections, study of immunological and viral tests and knowledge of the sensitivity of microbial isolates to the most important antibiotics for use for treatment
5. Enable students to understand the principles of immunology, which include identifying the sections of immunology and its components, immune cells, their development and their role in defending against various types of diseases, types of antibodies, immune factors present in the mouth and saliva, allergic reactions and their mechanisms, the most important autoimmune diseases, phagocytosis, and the role of the complement factor.
6. Enable students to learn about the science of viruses, the characteristics of viruses, their types and divisions, and a detailed study of viral diseases related to the dental profession, such as hepatitis B virus, oral viruses, influenza

	<p>virus, AIDS, its spread methods, its forms, and its role in disease development and control, especially by using vaccines.</p> <p>7. Enable students to know the relationship between various microorganisms in the human body, the importance of their natural existence and the factors that turn them into pathogenicity.</p> <p>Secondly: Skill-based Objectives</p> <p>1- The student identifies the different microorganisms types.</p> <p>2- The student distinguishes between the methods used for microbiological diagnosis.</p>
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9. Teaching and Learning Strategies

Strategy	<p>1-Thinking skill according to the student's ability so that the student can rely on his abilities to think reasonably</p> <p>2-Understanding when, how, what and how to think to improve the ability to think.</p> <p>3-High thinking skill so that the student learns to think well before making a decision himself</p> <p>4-Critical thinking strategy in education</p> <p>Evaluation methods</p> <p>1- Conducting theoretical and practical exams</p> <p>2- Feedback from students</p> <p>3- Conducting short practical exams in the laboratory</p> <p>4- Learning triangle</p>
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10. Course Structure (Second course)

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First week	2 theoretical + 2 practical		Fusiforms and Spirochaetes -Fusobacterium, leptotichia -Treponema	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Second week	2 theoretical + 2 practical		Mycoplasma, Chlamydia and Rickittsiae	Theoretical lecture using Power Point and the Practical lectures Examining slides using a	Short and oral exams, semester and final exam

				microscope	
Third week	2 theoretical + 2 practical		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 Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Fourth week	2 theoretical + 2 practical		Microbiology of dental caries -Dental plaque & plaque metabolism -cariogenic microorganisms -Mutans Streptococci -Lactobacilli Actinomyces- Microbial colonization- Caries prevention- Antibacterial factors in saliva- -Vaccination against dental caries	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Fifth weeks	2 theoretical + 2 practical		Microbiology of endodontics and periodontal diseases -source of infection -Porphyromonas, prevotella, Agregatobacter -specific & non specific plaque hypothesis - method for isolation bacteria from periodontal pockets and endodontics specimens.	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Sixth week	2 theoretical + 2 practical		Virology -general structure of viruses -classification -viral replication -Isolation & diagnosis -Oral virology	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
seventh week	2 theoretical + 2 practical		- Oral mycology -Fungal cells -classification -Candida	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam

Eighth week	2 theoretical + 2 practical		Oral parasitology -Introduction, epidemiology, transmission -E.histolotica, E.gingivalis, T.tenax	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Ninth week	2 theoretical + 2 practical		Oral manifestation of systemic diseases Typhoid fever, hepatitis, AIDs, syphilis, T.B., fungal infection, cholera	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Tenth week	2 theoretical + 2 practical		-specific , non-specific and Ecological plaque hypothesis - Porphyromonas, prevotella, Aggregatibacter virulence factors of periodontal pathogens	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Eleventh weeks	2 theoretical + 2 practical		endodontic microbiota and Routes of root canal infection -ecology of endodontic microbiology	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Twelfth week	2 theoretical + 2 practical		Virology -general structure of viruses -classification	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
thirteenth week	2 theoretical + 2 practical		viral replication -Isolation & diagnosis -Oral virology	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Fourteenth Week	2 theoretical + 2 practical		- Oral mycology and Oral parasitology -Introduction, epidemiology, transmission -E.histolotica, E.gingivalis, T.tenax	Theoretical lecture using Power Point and the Practical lectures Examining slides using a	Short and oral exams, semester and final exam

				microscope	
Fifteenth Week	2 theoretical + 2 practical		-Fungal cells -classification -Candida		Short and oral exams, semester and final exam

11. Course Evaluation	
Semester grade (100) is distributed as follows: Theoretical semester exam 30 + 10 for the practical semester exam (for each semester) Final theoretical exam 40 + Final practical exam 20 (for each semester)	
12 Learning and Teaching Resources	
Required textbooks (methodology, if any)	
Key references (sources)	-Oral microbiology , William ,A. Mosby,1982.
Recommended books and references (scientific journals, reports...)	-Lakshman, S.“Essential of Microbiology for Dentistry, Churchillilivinostone, 3rd edition, 2010.
Electronic references, websites	-Ivan Roitt, D.andBrostoiff, M.“Immunology,,,,6th edition .Mosby com.,2001
Course Development Plan	<ul style="list-style-type: none"> • Developing tissue laboratories to suit the requirements of scientific modernity • Follow modern methods in presenting scientific material • Search for the latest developments in scientific research and add them to the curriculum

Course Description Form

1. Course Name:	
Pharmacology 1	
2. Course Code:	
BDEN001036 1	
3. Semester:	
1 st semester	
4. Description Preparation Date:	
8-3-2026	
5. Available Attendance Forms:	
physical (in place) \weekly (obligatory)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hrs theoretical +30 hrs practical \ 3 units	
7. Course administrator's name (mention all, if more than one name)	
<p>1- Professor Malath Azeez Jebur dent.malath.azeez@uobabylon.edu.iq</p> <p>2- Assistant professor Dr. Dalia A. Muhsin dent.dalya.abd@uobabylon.edu.iq</p> <p>3- Lecturer Dr.Azher Abdulhafid dent.azher.abdulhafidh@uobabylon.edu.iq</p>	
8. Course Objectives	
Course Objectives	<p>First: Cognitive Objectives</p> <p>1- to understand the principle areas of pharmacology (pharmacokinetics and pharmacodynamics)</p> <p>2- describe the the mechanism of action of certain drugs on their receptors along autonomic nervous system.</p> <p>3-understand the way to select a particular drug for pain treatment</p> <p>4- To understand the main drugs for local and general anesthesia regarding (indication,mechanisms,side effects,...)</p>

	<p>5- To know the main autacoids and their replacement drugs for different pathological states.</p> <p>Secondly: Skill-based Objectives</p> <p>1-to practice how to choose the right route of drug administration and how to use it according to indication.</p> <p>2- to practice how to identify drug dosage forms.</p> <p>3- to practice how to prescribe scientific prescription for a particular patients.</p>
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9. Teaching and Learning Strategies

Strategy	<p>Large group teaching and small group teaching in addition to laboratory sessions.</p> <ul style="list-style-type: none"> • Lecture giving method • E-learning within the university campus by uploading lectures to the college website for lectures by faculty members in the college • Experimental education in laboratories • Workshops and extracurricular activities • Learning triangle <p>Evaluation methods</p> <ul style="list-style-type: none"> • Conducting daily and monthly theoretical and practical tests • Giving seminars by students within the curriculum • Preparing weekly practical reports
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10. Course Structure

No.	Hours	Required Learr		Unit or subject name	Learning method	Evaluation
		Outcomes				
First week	2 2	Knowledge Skill Attitude	• General Pharmacology / Pharmacokinetics	• large group • lab. • small group	Written exam (MCQ,essay ,oral for practical assessment and short quize)	
Second week	2 2	Knowledge Skill Attitude	• General Pharmacology / Pharmacodynamics	• large group • lab. small group	Written exam (MCQ,essay ,oral for practical assessment and short quize)	

Third week	2 2	Knowledge Skill Attitude	Autonomic NS / • Cholinergic Transmission	• large group • lab. small group	Written exam (MCQ,essay ,oral for practical assessment and short quize)
Fourth week	2 2	Knowledge Skill Attitude	Autonomic NS / • Cholinergic Transmission	• large group • lab. small group	Written exam (MCQ,essay ,oral for practical assessment and short quize)
Fifth weeks	2 2	Knowledge Skill Attitude	Autonomic NS / Adrenergic Transmission	• large group • lab. small group	Written exam (MCQ,essay ,oral for practical assessment and short quize)
Sixth week	2 2	Knowledge Skill Attitude	• Management of pain • NSAIDs	• large group • lab. small group	Written exam (MCQ,essay ,oral for practical assessment and short quize)
seventh week	2 2	Knowledge Skill Attitude	• NSAIDs	• large group • lab. small group	Written exam (MCQ,essay ,oral for practical assessment and short quize)
Ninth week	2 2	Knowledge Skill Attitude	Opioid Analgesics	• large group • lab. small group	Written exam (MCQ,essay ,oral for practical assessment and short quize)

Tenth week	2 2	Knowledge Skill Attitude	Autacoids/ Histamine and Antihistamines	<ul style="list-style-type: none"> • large group • lab. small group	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Eleventh weeks	2 2	Knowledge Skill Attitude	Serotonin, and Prostaglandins	<ul style="list-style-type: none"> • large group • lab. small group	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Twelfth week	2 2	Knowledge Skill Attitude	Sedative - hypnotics	<ul style="list-style-type: none"> • large group • lab. small group	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
thirteenth week	2 2	Knowledge Skill Attitude	Anesthesia general	<ul style="list-style-type: none"> • large group • lab. small group	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Fourteenth Week	2 2	Knowledge Skill Attitude	Anesthesia \local	<ul style="list-style-type: none"> • large group • lab. small group	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Fifteenth Week	2 2	Knowledge Skill Attitude	Depression, Schizophrenia	<ul style="list-style-type: none"> • large group • lab. small group	Written exam (MCQ,essay ,oral for practical assessment and short quiz)

11. Course Evaluation	
<p>The grade of the semester (100) is distributed as follows</p> <p>Mid exam 30 (written exam 27 +3 quizzes) +10 grades (practical mid exam) = 40 grades Final exam (40 written exam +20 practical exam) =60 grades Total= 100 grades</p>	
12 Learning and Teaching Resources	
Required textbooks (methodology, if any)	
Key references (sources)	Lippincotts Illustrated reviews of Pharmacology. 11th edition (2024)
Recommended books and references (scientific journals, reports...)	<ol style="list-style-type: none"> 1. Laurence, Bennet, and Brown, Clinical Pharmacology. 11th edition (2012) 2. Goodman & Gilman's the pharmacological basis of therapeutics (2007) 3. Rang, Dale, and Ritter, Pharmacology. 9th edition (2020) 4. Katzung's Basic & Clinical Pharmacology (2015)
Electronic references, websites	https://pharmacomedicale.org/images/cnpm/CNPM_2016/katzung-pharmacology.pdf
Course Development Plan	<ul style="list-style-type: none"> • Updating scientific content: • Use of update techniques and facilities for delivery. • Annual review and update of the lecture subjects and content • Students feedback of lectures and evaluation sessions.

Course Description Form

1. Course Name:	
Pharmacology 2	
2. Course Code:	
BDEN001044 2	
3. Semester:	
2nd semester	
4. Description Preparation Date:	
8-3-2026	
5. Available Attendance Forms:	
physical (in place) \weekly (obligatory)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hrs theoretical +30 hrs practical \ 3 units	
7. Course administrator's name (mention all, if more than one name)	
1- Professor Malath Azeez Jebur dent.malath.azeez@uobabylon.edu.iq 2- Assistant professor Dr. Dalia A. Muhsin dent.dalya.abd@uobabylon.edu.iq 3- Lecturer Dr.Azher Abdulhafid dent.azher.abdulhafidh@uobabylon.edu.iq	
8. Course Objectives	
Course Objectives	<ol style="list-style-type: none"> 1. First:CognitiveObjectives <ol style="list-style-type: none"> 1. To under stand the principle drugs affecting peptic ulcer 2. Studying Antibiotics / Antibacterial drugs 3. Studying Antibiotics / Antibacterial drugs 4. Studying Antibiotics / Antifungal drugs 5. Understanding of CVS / Drugs and Hemostasis 6. Understanding of CVS / Antihypertensive Drugs 7. Studying Antianginal Drugs

	<ol style="list-style-type: none"> 8. Studying CVS/ Heart failure/Antiarrhythmics 9. Understanding of Hormones / Antidiabetic Drugs 10. Understanding principles of Hormones / Corticosteroids 11. Understanding local hemostasis 12. Understanding anticancer medications and their actions 13. Understanding treatment of caries 14. Under standing drugs acting on thyroid function <p style="text-align: center;">Secondly: Skill-based Objectives</p> <ol style="list-style-type: none"> 1. That the student understands modern concepts and the development of knowledge in the field of pharmacology 2. To link the relationship between practical and theoretical experiences 3. Subject-specific skills 4. Careful handling of animals and machines 5. Operating, organizing, calibrating devices, and creating a new system from several different devices 6. Acquisition of broad skills, great agreement, and a high ability to think and elicit, and to prove many scientific facts experimentally.
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9. Teaching and Learning Strategies

Strategy	<p>Large group teaching and small group teaching in addition to laboratory sessions.</p> <ul style="list-style-type: none"> • Lecture giving method • E-learning within the university campus by uploading lectures to the college website for lectures by faculty members in the college • Experimental education in laboratories • Workshops and extracurricular activities • Learning triangle <p>Evaluation methods</p> <ul style="list-style-type: none"> • Conducting daily and monthly theoretical and practical tests • Giving seminars by students within the curriculum
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10. Course Structure

No.	Hours	Required Learr	Unit or subject name	Learning method	Evaluation
		Outcomes			method

First week	2 2	Knowledge Skill Attitude	• Drugs acting on GIT	<ul style="list-style-type: none"> • large group • lab. • small group • seminars 	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Second week	2 2	Knowledge Skill Attitude	<ul style="list-style-type: none"> • Anti-depressants, Antipsychotics, Antiepileptics 	<ul style="list-style-type: none"> • large group • lab. • small group • seminars 	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Third week	2 2	Knowledge Skill Attitude	<ul style="list-style-type: none"> • Treatment of Diabetes 	<ul style="list-style-type: none"> • large group • lab. • small group • seminars 	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Fourth week	2 2	Knowledge Skill Attitude	<ul style="list-style-type: none"> • Antibiotics / Antibacterial drugs 	<ul style="list-style-type: none"> • large group • lab. • small group • seminars 	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Fifth weeks	2 2	Knowledge Skill Attitude	Antibiotics / Antibacterial drugs	<ul style="list-style-type: none"> • large group • lab. • small group • seminars 	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Sixth week	2 2	Knowledge Skill Attitude	<ul style="list-style-type: none"> • Azoles, Antimycobacterial agents 	<ul style="list-style-type: none"> • large group • lab. • small group • seminars 	Written exam (MCQ,essay ,oral for practical assessment and short quiz)

seventh week	2 2	Knowledge Skill Attitude	<ul style="list-style-type: none"> • Antifungal agents, Antiviral agents 	<ul style="list-style-type: none"> • large group • lab. • small group • seminars 	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Ninth week	2 2	Knowledge Skill Attitude	Azole and related drugs	<ul style="list-style-type: none"> • large group • lab. • small group • seminars 	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Tenth week	2 2	Knowledge Skill Attitude	CVS: HTN, Angina, HF, Arrhythmia	<ul style="list-style-type: none"> • large group • lab. • small group • seminars 	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Eleventh weeks	2 2	Knowledge Skill Attitude	Drugs used in thyroid gland disease	<ul style="list-style-type: none"> • large group • lab. • small group • seminars 	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Twelfth week	2 2	Knowledge Skill Attitude	Anticoagulant, Antiplatelets, Local hemostasis	<ul style="list-style-type: none"> • large group • lab. • seminars • small group 	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
thirteenth week	2 2	Knowledge Skill Attitude	Local hemostasis	<ul style="list-style-type: none"> • large group • lab. • small group • seminars 	Written exam (MCQ,essay ,oral for practical assessment and short quiz)
Fourteenth Week	2 2	Knowledge Skill Attitude	Anticancer agents	<ul style="list-style-type: none"> • large group • lab. • small group 	Written exam (MCQ,essay ,oral for practical

				•seminars	assessment and short quiz)
Fifteenth Week	2 2	Knowledge Skill Attitude	Anticancer therapy	<ul style="list-style-type: none"> • large group • lab. • small group • seminars 	Written exam (MCQ,essay ,oral for practical assessment and short quiz)

11. Course Evaluation	
<p>The grade of the semester (100) is distributed as follows</p> <p>Mid exam 30 (written exam 27 +3 quizzes) +10 grades (practical mid exam) = 40 grades</p> <p>Final exam (40 written exam +20 practical exam) =60 grades</p> <p>Total= 100 grades</p>	
12 Learning and Teaching Resources	
Required textbooks (methodology, if any)	
Key references (sources)	Lippincotts Illustrated reviews of Pharmacology. 11th edition (2024)
Recommended books and references (scientific journals, reports...)	<ol style="list-style-type: none"> 1. Laurence, Bennet, and Brown, Clinical Pharmacology. 11th edition (2012) 2. Goodman & Gilman's the pharmacological basis of therapeutics (2007) 3. Rang, Dale, and Ritter, Pharmacology. 9th edition (2020) 4. Katzung's Basic & Clinical Pharmacology (2015)
Electronic references, websites	https://pharmacomedicale.org/images/cnpm/CNPM_2016/katzung-pharmacology.pdf
Course Development Plan	<ul style="list-style-type: none"> • Updating scientific content: • Use of update techniques and facilities for delivery. • Annual review and update of the lecture subjects and content • Students feedback of lectures and evaluation sessions.

Course Description Form

1. Course Name: pathology
2. Course Code: BDEN001037 1
3. Semester / Year: Semester
4. Description Preparation Date: 2026/3/8
5. Available Attendance Forms: weekly
6. Number of Credit Hours (Total) / Number of Units (Total): 4 hour weekly/ 3Units
7. Course administrator's name (mention all, if more than one name)
Prof. ALI ZAKI NAJI Email: Dr.alizekinaji@gmail.com Lecturer ammar eesa mahdi Email: ammarn729@gmail.com
8. Course Objectives
<p>Course Objectives</p> <p>Objectives of the study subject</p> <p>1. Upon completion of the Pathology course, the student will be able to:</p> <p>1- Learn about all the basic concepts of pathology</p> <p>2- The student learns about the changes that accompany diseases in cell shape and functions</p> <p>3- The student distinguishes between different types of diseases (genetic – inflammatory – tumors)</p> <p>4- The student learns about the pathogenic causes and how the disease develops from the onset of infection until symptoms appear</p> <p>5- Learn about scientific theories related to the emergence of different types of tumors.</p> <p>6- The student distinguishes between the different types of carcinogenic substances, the way they work, and the necessary ways to avoid them</p> <p>7- The student is introduced to the important and common diseases of the</p>

respiratory system, such as asthma, tuberculosis, diseases resulting from industrial pollutants, as well as tumors and others.

8- The student learns about diseases of the heart and blood vessels, the types of angina pectoris, heart attack, and rheumatic heart disease, as well as changes in the blood vessels that accompany cases of high blood pressure and diabetes, and identifies the various tumors that affect the blood vessels.

9- The student learns about the various diseases of the esophagus, including infections and tumors

10- The student learns about diseases of the stomach, including ulcers of all kinds and various infections, as well as the various tumors that may affect this organ.

11- Distinguish between the different types of diseases of the small and large intestine, whether congenital or acquired.

12- Distinguish between the types of lymph node diseases and identify the most important types of tumors that affect these glands.

13- Identify viral diseases and tumors that affect the liver

14-- Learn about the diagnostic methods used in laboratories for the purpose of diagnosing inflammatory diseases and tumors.

15- Learn how to prepare glass slides for routine histological examination using paraffin wax cubes for an optical microscope.

16- Learn how to prepare slides for electron microscope examinations

17- The student learns about the different dyes used in histological examination laboratories, including routine dyes (hematoxylin and eosin), as well as the various immunological parameters.

18- Learn about modern techniques in laboratory diagnosis of tumors and genetic diseases, such as FISH and CISH

19- Learn the correct methods for preserving and archiving slides and glass slides, as well as medical reports.....

9. Teaching and Learning Strategies

Strategy

- 1- Method of giving lectures.
- 2- Laboratory applications in basic science laboratories.
- 3- Scientific applications in educational clinics for specialized dental diseases
- 4- Seminars

10. Course Structure

Week	Hours	Required Learning	Unit or	Learning	Evaluation
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		Outcomes	subject name	method	method
General concepts of pathology	According to the weekly schedule	<p>.1 Have practical experience in prepare histopathological slides, using routine H&E Stain .</p> <p>.2 Have practical experience to describe pathological changes developed on tissue and reach to the right diagnosis.</p> <p>.3 Develop their knowledge to understand principal types of cell adaptations.</p> <p>.4 Explain the causes and types of cell injury.</p> <p>.5 Describe the types of inflammation with their effects.</p> <p>.6 Determine the process of wound healing and its pathological aspects.</p> <p>.7 Develop knowledge about disturbance of body fluid and edema formation.</p> <p>.8 Realize the disorders of clotting system, with their causes and types.</p> <p>.9 Build up their Knowledge about tumors, carcinogenesis, clinical aspects of neoplasia, prognosis, Differentiate between benign and malignant tumors and Estimate the stage and grade of the malignant tumors.</p> <p>.10 Realize molecular disorders, genetic diseases</p>	pathology	Theoretical lect and educati laboratories	Theoretical and practical exams and seminars, as well as feedback from students and the learning triangle

Theory : 2 hour per week		Practical : 2 hour per week
Week 1	<p>Introduction to pathology :- (1 hour). -definition . -classification.</p> <p>Cell adaptation (1 hours). Types:(atrophy,hypertrophy, hyperplasia, metaplasia).</p>	<p>Technique of Paraffin embedded section Routine and special stains Types of microscopes Types of microtomes</p> <p>Slides demonstration for the same subjects</p>
Week 2	<p>cell injury (2 hours) Reversible : Irreversible: Necrosis.</p>	<p>Slides demonstration for the same subjects</p> <p>Slides demonstration for the same subjects</p>

	Apoptosis.	
Week 3	Mechanisms of cell injury (1 hour). Intracellular accumulation and pigments (1 hour).	Slides demonstration for the same subjects
Week 4	Inflammation: Acute inflammation: (2 hours) Vascular response to injury: Cellular response to injury: Effects and outcome:	Slides demonstration for the same subjects
Week 5	Chronic inflammation : (2 hours). Causes, types, granuloma.	Slides demonstration for the same subjects
Week 6	Healing and repair : (2 hours). Types of wound healing, and complications:	Slides demonstration for the same subjects
Week 7	Fractures and pathological aspects of healing fractures (2 hours). Bacteria, viruses, and fungi	Slides demonstration for the same subjects
Week 8	Neoplasia : (6 hours) Introduction for neoplasia	Slides demonstration for the same subjects
Week 9	Types , Classification.	Slides demonstration for the same subjects
Week 10	Molecular bases of cancers, carcinogenesis Local spread and metastasis, clinical aspects and prognosis.	Slides demonstration for the same subjects
Week 11	Disturbance of body fluids: (2 hours). Edema, types, causes	Slides demonstration for the same subjects
Week 12	Congestion Thrombosis , embolization (2 hours).	Slides demonstration for the same subjects
Week 13	Genetic disorders;; (4 hours). Mutations, and their causes	Slides demonstration for the same subjects
Week 14	Classes of genetic diseases Chromosomal + cytogenetic diseases.	Slides demonstration for the same subjects
Week 15	exam	exam

11. Course Evaluation

The grade distribution for the first course is 40 points, divided into 30 theoretical points and 10 practical points. The final exam for the first course is 60 points, divided into 40 final theoretical points and 20 final practical points.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1-Robbins and Cotran 2017 .Pathologic basis of disease, 10 edition. Elsevier Saunders
Main references (sources)	<p>1-Muris text book pathology, 2014. 14 edition.</p> <p>2-J.C.E. 2006 General a systematic pathology, 4th editio Underwood</p> <p>3-Rosi and Ackerm 2010. Manual of Surgical pathology . 9 edition. Mosby.</p> <p>4-V. Krishna 2004 . Te book of pathology. 1st editio Orient Longman.</p>
Recommended books and references (scientific journals, reports...)	<p>5-B.K.B. Berkovitz 200 Oral Anatomy, histology a embryology.3rd editio Mosby</p> <p>Holding scientific semina in many specialties of dentistry a basic sciences, includi pathology and histopathology.</p> <p>Electronic Referenc Websites</p>
Electronic References, Websites	

Course Description Form

1. Course Name: pathology	
2. Course Code: BDEN001045 2	
3. Semester / Year: Semester	
4. Description Preparation Date: 2026/3/8	
5. Available Attendance Forms: weekly	
6. Number of Credit Hours (Total) / Number of Units (Total): 4 hour weekly/ 3 Units	
7. Course administrator's name (mention all, if more than one name)	
Prof. ALI ZAKI NAJI Email: Dr.alizekinaji@gmail.com Lecturer ammar eesa mahdi Email: ammarn729@gmail.com	
8. Course Objectives	
C	<p>Course Objectives</p> <p>Objectives of the study subject</p> <p>1. Upon completion of the Pathology course, the student will be able to:</p> <p>1- Learn about all the basic concepts of pathology</p> <p>2- The student learns about the changes that accompany diseases in cell shape and functions</p> <p>3- The student distinguishes between different types of diseases (genetic – inflammatory – tumors)</p> <p>4- The student learns about the pathogenic causes and how the disease develops from the onset of infection until symptoms appear</p> <p>5- Learn about scientific theories related to the emergence of different types of tumors.</p> <p>6- The student distinguishes between the different types of carcinogenic substances, the way they work, and the necessary ways to avoid them</p> <p>7- The student is introduced to the important and common diseases of the respiratory system, such as asthma, tuberculosis, diseases resulting from industrial pollutants, as well as tumors and others.</p>

- 8- The student learns about diseases of the heart and blood vessels, the types of angina pectoris, heart attack, and rheumatic heart disease, as well as changes in the blood vessels that accompany cases of high blood pressure and diabetes, and identifies the various tumors that affect the blood vessels.
- 9- The student learns about the various diseases of the esophagus, including infections and tumors
- 10- The student learns about diseases of the stomach, including ulcers of all kinds and various infections, as well as the various tumors that may affect this organ.
- 11- Distinguish between the different types of diseases of the small and large intestine, whether congenital or acquired.
- 12- Distinguish between the types of lymph node diseases and identify the most important types of tumors that affect these glands.
- 13- Identify viral diseases and tumors that affect the liver
- 14- Learn about the diagnostic methods used in laboratories for the purpose of diagnosing inflammatory diseases and tumors.
- 15- Learn how to prepare glass slides for routine histological examination using paraffin wax cubes for an optical microscope.
- 16- Learn how to prepare slides for electron microscope examinations
- 17- The student learns about the different dyes used in histological examination laboratories, including routine dyes (hematoxylin and eosin), as well as the various immunological parameters.
- 18- Learn about modern techniques in laboratory diagnosis of tumors and genetic diseases, such as FISH and CISH
- 19- Learn the correct methods for preserving and archiving slides
 - and glass slides, as well as medical reports.....
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9. Teaching and Learning Strategies

Strategy	1- Method of giving lectures. 2- Laboratory applications in basic science laboratories 3- Scientific applications in educational clinics for specialized dental diseases 4- Seminars
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
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General concepts pathology	According to weekly schedule	<ol style="list-style-type: none"> 1. Develop their knowledge explain the pathological aspects of main infectious lung disease like pneumonia and T.B. 2. Understanding the pathogenesis of Asthma, emphysema and chronic bronchitis . 3. Describe the types of pneumoconiosis, carcinogenesis morphological types and prognosis of lung tumors. 4. Determine the risk factors, pathogenesis and complications of atherosclerosis, with vascular changes in Hypertension and Diabetes mellitus . 5. Develop knowledge about vasculitis and vascular tumors. 6. Realize the disorders of ischemic heart disease “angina & M.I.” 7. Differentiate between types of 	pathology	Theoretical lectures educational laboratories	Theoretical and practical exams and seminars, as well as feedback from students at the learning trial
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		<p>cardiac valve disease specially those caused by Rheumatic heart disease & infective endocarditis.</p> <p>8. Able to explain different causes & types of pericarditis and myocarditis.</p> <p>9. Realize the congenital & main inflammatory disorders of esophagus, . Describe the types benign & malignant esophageal tumors.</p>			
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Theory : 2 hour per week

Practical : 2 hour per week

Week 1	<i>Atelectasis . Pneumonia .</i>	<i>Slides demonstration for the same subjects</i>
Week 2	<i>Emphysema, bronchitis</i>	<i>Slides demonstration for the same subjects</i>
Week 3	<i>and Asthma. Pulmonary T.B.</i>	<i>Slides demonstration for the same subjects</i>
Week 4	<i>Tumors. Vascular disorders : (2hour)</i>	<i>Slides demonstration for the same subjects Slides demonstration for the same subjects</i>
Week 5	<i>Atherosclerosis.</i>	<i>Slides demonstration for the same subjects</i>
Week6	<i>Effects of hypertension.</i>	<i>Slides demonstration for the same subjects</i>
Week 7	<i>Tumors of blood vessel.</i>	<i>Slides demonstration for the same subjects</i>
Week 8	<i>Cardiac diseases: (2 hours). Angina .Myocardial</i>	<i>Slides demonstration for the same subjects Slides demonstration for the same subjects</i>
Week9	<i>infarction. Heart failure.</i>	<i>Slides demonstration for the same subjects</i>
Week 10	<i>Valve diseases.</i>	<i>Slides demonstration for the same subjects</i>
Week 11	<i>Disease of GIT & liver : (6 hours)</i>	<i>Slides demonstration for the same subjects</i>
Week 12	<i>Esophagus pathology.</i>	<i>Slides demonstration for the same subjects</i>
Week 13	<i>Stomach pathology: Intestinal pathology.</i>	<i>Slides demonstration for the same subjects</i>
Week 14	<i>Hepato-billiary disorders. Diseases of lymphoreticular system.</i>	<i>Slides demonstration for the same subjects</i>
Week 15	<i>LN's , reactive, tumors (lymphoma, metastasis). Diseases of spleen. Diseases of haemopoietic system. types of Anemia: exam .</i>	<i>Slides demonstration for the same subjects Slides demonstration for the same subjects Slides demonstration for the same subjects exam</i>

			11. C course Evaluat ion
<p>The grade distribution for the second course is 40 points, divided into 30 theoretical points and 10 practical points. The final exam for the second course is 60 points, divided into 40 final theoretical points and 20 final practical points.</p>			
12. Learning and Teaching Resources			
Required textbooks (curricular books, if any)	<p>1-Robbins and Cotran , 2017 . Pathologic basis of disease, 10th edition. Elsevier Saunders</p>		
Main references (sources)	<p>1-Muris text book of pathology, 2014 edition. 2-J.C.E. 2006 General and systematic pathology, 4th</p>		

	<p>edition. Underwood 3-Rosi and Ackerman 2010. Manual of Surgical pathology . 9th edition. Mosby. 4-V. Krishna 2004 . Text book of pathology. 1st edition. Orient Longman.</p>
<p>Recommended books and references (science journals, reports...)</p>	<p>5-B.K.B. Berkovitz 2005 . Oral Anatomy, histology and embryology. 3rd edition. Mosby Holding scientific seminars in many specialties of dentistry and basic sciences, including pathology and histopathology. Electronic References, Websites</p>
<p>Electronic References, Websites</p>	

Course Description Form

1. Course Name:					
Pre-clinical Operative Dentistry					
2. Course Code:					
BDEN001038 1					
3. Semester / Year:					
Third year/ 1st. semester					
4. Description Preparation Date:					
8 / 3 / 2026					
5. Available Attendance Forms:					
In Office Hands on course					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theory:2 Practical:3/ units: 3.5					
7. Course administrator's name (mention all, if more than one name)					
Name: Asst.lect. Ayat Salah Mahdi Email: ayatsalah@uobabylon.edu.iq Name: Asst.Prof. Thulficar Ghali Al-Khafajy Email: dent.thulficar.ghali@uobabylon.edu.iq					
8. Course Objectives					
<p>A.Cognitive goals: To enable students to gain Medical and dental Knowledge of:</p> <p>A1. normal human structure and function at the molecular, genetic, cellular, tissue, organ-system and whole-body level</p> <p>A2. the mechanisms involved in the causation and treatment of human diseases and their influence on clinical presentation and therapy.</p> <p>A3. the epidemiology of common oral and dental diseases.</p> <p>A4. the impact of social factors on oral health and disease.</p> <p>A5. the basic scientific and ethical principles of clinical research.</p>			<p>B. The skills goals special to the programme.</p> <p>B1. To enable students to apply scientific methods to the practice of dentistry for the identification of problems, data collection, hypothesis formulation, and the application of deductive reasoning to problem solving, clinical reasoning, and decision-making.</p> <p>B2. To successfully integrate collected clinical information to carry out appropriate diagnostic and treatment plans for patients across the broad spectrum of acute and chronic conditions.</p> <p>B3. To perform basic risk assessments and formulate plans to promote patient wellbeing.</p>		
9. Teaching and Learning Strategies					
Strategy	<ul style="list-style-type: none"> • A data show projector is used for direct lectures • Microsoft power point for lecture presentations • Live demonstrations • Preclinical and clinical training with direct supervision • Group Seminars , group meeting, instructions and Discussion • Graduation Research 				
10. Course Structure					
Week	Hours	Unit or subject	Required	Learning	Evaluation

		name	Learning Outcomes	method	method
1	1	Definition of operative dentistry	<p>Affective and value goals</p> <p>1. To affectively counsel and educate patients and their families.</p> <p>2. To design diagnostic and treatment options in a manner that will help the participation of patients and their families in shared decision-making.</p> <p>3. To effectively communicate with members, including both dentist and non-dentist professionals, of the health care team.</p>	<p>A data show projector is used for direct lectures</p> <p>Microsoft power point for lecture presentations</p> <p>Live demonstrations</p> <p>Preclinical and clinical training with direct supervision</p> <p>Group Seminars , group meeting, instructions and Discussion</p> <p>Graduation Research</p>	<p>Participation & Activity</p> <p>Quizzes</p> <p>Written Examinations</p> <p>Mid Exam</p> <p>Practical/clinical Assessments and</p> <p>Practical/clinical Examinations</p> <p>Final Examination: Theory 40% and Practical or clinical 20%</p> <p>Committee discussion of seminars and graduation research</p>
2	1	Instruments and general instrumentation of cavity preparation			
3	1	Amalgam cavity preparations for class I			
4	1	Amalgam cavity preparations for class II			
5	1	Amalgam cavity preparations for class II (MOD)			
6	1	Amalgam cavity preparations for class III and class V			
7	1	Cavity liners and cement bases (part 1)			
8	1	Cavity liners and cement bases (part 2)			
9	1	Mid-Exam			
10	1	Dental amalgam alloys (material)			
11	1	Complex amalgam restoration			
12	1	Failures in amalgam restorations			
13	1	Tooth colored restorations (composite)			
14	1	Cavity preparation for anterior restorations			
15	1	Resin material			

11. Course Evaluation

Quizzes Written Examinations=5%

Mid Exam=20%

Practical/clinical Assessments and Practical/clinical Examinations=15%

Final Examination: Theory 40% and Practical or clinical 20%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Sturdevant's Art and Science of Operative Dentistry
Main references (sources)	Text book of operative dentistry
Recommended books and references (scientific journals, reports...)	Related Journals
Electronic References, Websites	Lectures are available on university official website and lecturer youtube channel

Course Description Form

1. Course Name:					
Pre-clinical Fixed Prosthodontics					
2. Course Code:					
BDEN001046 2					
3. Semester / Year:					
Third year/ 2nd. semester					
4. Description Preparation Date:					
8/ 3 / 2026					
5. Available Attendance Forms:					
In Office Hands on course					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theory:2 Practical:3/ units: 3.5					
7. Course administrator's name (mention all, if more than one name)					
Name: Asst.Prof. Thulficar Ghali Al-Khafajy Email: dent.thulficar.ghali@uobabylon.edu.iq					
8. Course Objectives					
<p>A.Cognitive goals: To enable students to gain Medical and dental Knowledge of:</p> <p>A1. normal human structure and function at the molecular, genetic, cellular, tissue, organ-system and whole-body level</p> <p>A2. the mechanisms involved in the causation and treatment of human diseases and their influence on clinical presentation and therapy.</p> <p>A3. the epidemiology of common oral and dental diseases.</p> <p>A4. the impact of social factors on oral health and disease.</p> <p>A5. the basic scientific and ethical principles of clinical research.</p>			<p>B. The skills goals special to the programme.</p> <p>B1. To enable students to apply scientific methods to the practice of dentistry for the identification of problems, data collection, hypothesis formulation, and the application of deductive reasoning to problem solving, clinical reasoning, and decision-making.</p> <p>B2. To successfully integrate collected clinical information to carry out appropriate diagnostic and treatment plans for patients across the broad spectrum of acute and chronic conditions.</p> <p>B3. To perform basic risk assessments and formulate plans to promote patient wellbeing.</p>		
9. Teaching and Learning Strategies					
Strategy		<ul style="list-style-type: none"> A data show projector is used for direct lectures Microsoft power point for lecture presentations Live demonstrations Preclinical and clinical training with direct supervision Group Seminars , group meeting, instructions and Discussion Graduation Research 			
10. Course Structure					
Week	Hours	Unit or subject name	Required Learning Outcomes	Learning method	Evaluation method

1	1	Definitions	<p>Affective and value goals</p> <p>1. To affectively counsel and educate patients and their families.</p> <p>2. To design diagnostic and treatment options in a manner that will help the participation of patients and their families in shared decision-making.</p> <p>3. To effectively communicate with members, including both dentist and non-dentist professionals, of the health care team.</p>	<p>A data show projector is used for direct lectures</p> <p>Microsoft power point for lecture presentations</p> <p>Live demonstrations</p> <p>Preclinical and clinical training with direct supervision</p> <p>Group Seminars , group meeting, instructions and Discussion</p> <p>Graduation Research</p>	<p>Participation & Activity</p> <p>Quizzes</p> <p>Written Examinations</p> <p>Mid Exam</p> <p>Practical/clinical Assessments and</p> <p>Practical/clinical Examinations</p> <p>Final Examination:</p> <p>Theory 40% and Practical or clinical 20%</p> <p>Committee discussion of seminars and graduation research</p>
2	1	Biomechanical principles of tooth preparation:			
3	1	Full metal crown			
4	1	Porcelain fused to metal crown			
5	1	Complete ceramic crown (Porcelain Jacket Crown)			
6	1	Partial veneer crown (three-quarter crown)			
7	1	Post crown			
8	1	Impression for crown and bridge work			
9	1	Mid Exam			
10	1	Provisional restoration			
11	1	Working cast and dies			
12	1	//			
13	1	Waxing, investing, casting			
14	1	Finishing of the casting and clinical try-in			
15	1	Cementation			

11. Course Evaluation

Quizzes Written Examinations=5%

Mid Exam=20%

Practical/clinical Assessments and Practical/clinical Examinations=15%

Final Examination: Theory 40% and Practical or clinical 20%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary Fixed Prosthodontics Rosentetiel.Land.Fugimoto
Main references (sources)	Contemporary Fixed Prosthodontics Rosentetiel.Land.Fugimoto
Recommended books and references (scientific journals, reports...)	Related Journals
Electronic References, Websites	Lectures are available on university official website and lecturer youtube channel

Course Description Form

1. Course Name:	
Oral and maxillofacial radiology	
2. Course Code:	
BDEN001039 1	
3. Semester / Year:	
semester	
4. Description Preparation Date:	
8/ 3 / 2026	
5. Available Attendance Forms:	
weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hrs	
7. Course administrator's name (mention all, if more than one name)	
<p>Name assistan lecture haider ali Hassan dent.haider.ali@uobabylon.edu.iq Name: assistant lecture ayman hameed uraibi Email: : Aymanaltimimi2661980@gmail.com Name : hibah ezzat berum Email: hibah.berum@uobabylon.edu.iq Name:Wahab razaq jasssim Email:Wahab.dentist07@gmail.com</p>	
8. Course Objectives	
Course Objectives	<p>Course Objectives Cognitive objectives</p> <p>1- To learn about methods of diagnosing and treating medical conditions.</p> <p>2- Knowing the parts of the face and jaws through various types of x-rays and knowing all the devices and their applications in the field of maxillofacial x-rays.</p> <p>• The program's skill objectives</p> <p>1- Verbal Communication Able to express ideas clearly and confidently in speech.</p> <p>2-(Teamwork) (Working confidently within a group</p>

9. Teaching and Learning Strategies

Strategy	<p>Creative thinking according to the student's ability.</p> <ul style="list-style-type: none"> • Global thinking skill strategy. • Creative and critical thinking in learning. <p>Evaluation methods</p> <ul style="list-style-type: none"> • Future and scientific examination procedures • Feedback review from students • Conducting experimental examinations in educational clinics • pathological cases in all dental specialties • University education
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 st	1 hour Theory 2 hours practical	Learn Dental anomalies	Dental anomalies	Theoretical and practical lectures • Conducting seminars • Use clarification methods	Short quiz Examination semester X ray Film Evaluation Theoretical Practical Exam. Seminars Feedback Education triangle
2 nd	1 hour Theory 2 hours practical	Learn Oral disease	Common diseases And supporting structures		

3rd	1 hour Theory 2 hours practical	Learn Oral cyst	Cysts in the jaw		
fourth	1 hour Theory 2 hours practical	Learn dental radiographic sensors	Digital radiology		
fifth	1 hour Theory 2 hours practical	Learn Depicting implant	Implant radiograph		
six	1 hour Theory 2 hours practical	Learn Patient management	Patient management		

seven	1 hour Theory 2 hours practical	Learn trauma to teeth and jaw	Truma		
eight	1 hour Theory 2 hours practical	Learn Instruction And motivation patient about dental radiology	Characteristics x ray		
nine	1 hour Theory 2 hours practical	Learn Cone beam computerized tomomgraph	C b c t		
ten	1 hour Theory 2 hours practical	Learn about panoramic x ray	O p g		
eleven	1 hour Theory 2 hours practical	Learn about panoramic x ray artifacts	Panoramic artifacts		
twelve	1 hour Theory 2 hours practical	Learn magnetic resonance imaging	M R I		

thirteen	1 hour Theory 2 hours practical	Learn sonography	sonography		
fourteen	1 hour Theory 2 hours practical	Depicting salivary gland diseases	Salivary gland		
fifteen	1 hour Theory 2 hours practical	Learn meth of infection	Infection of contro;		

11. Course Evaluation

Semester (100) is now distributed: 20 marks for the theoretical half semester, 20 marks for the practical semester, and 40 marks for the theoretical semester

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	White and Pharoah's Oral Radiology 8 th edition
Recommended books and references (scientific journals, reports...)	Exercises_in_Oral_Radiology_and_Interpretat
Electronic References, Websites	

Course Description Form

1. Course Name:	
oral and maxillofacial radiology	
2. Course Code: :	
BDEN001047 2	
3. Semester / Year:	
2 nd semester 2025–2026	
4. Description Preparation Date:	
8/ 3 / 2026	
5. Available Attendance Forms:	
weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hrs	
7. Course administrator's name (mention all, if more than one name)	
<p>Name Assistan lecture haider ali Hassan Email dent.haider.ali@uobabylon.edu.iq Name: assistant lecture ayman hameed uraibi Email: : Aymanaltimimi2661980@gmail.com Name : hibah ezzat berum Email: hibah.berum@uobabylon.edu.iq Name:Wahab razaq jassim Email:Wahab.dentist07@gmail.com</p>	
8. Course Objectives	
<p>Course Objectives Cognitive objectives</p> <ol style="list-style-type: none"> 1- To learn about methods of diagnosing and treating medical conditions. 2- Knowing the parts of the face and jaws through various types of x-rays and knowing all the devices and their applications in the field of maxillofacial x-rays. <p>• The program’s skill objectives</p> <ol style="list-style-type: none"> 1- Verbal Communication Able to express ideas clearly and confidently in speech. 	

2-(Teamwork) (Working confidently within a group)

9. Teaching and Learning Strategies

Strategy	<p>Creative thinking according to the student's ability.</p> <ul style="list-style-type: none"> • Global thinking skill strategy. • Creative and critical thinking in learning. <p>Evaluation methods</p> <ul style="list-style-type: none"> • Future and scientific examination procedures • Feedback review from students • Conducting experimental examinations in educational clinics for pathological cases in all dental specialties • University education
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 st	1 hour Theory 2 hours practical	Learn radiation physics part 1	Radiation Physics Part 1	Theoretical and practical lectures • Conducting seminars • Use clarification methods	Short quiz Examination semester X ray Film Evaluation Theoretical Practical Exam. Seminars Feedback Education triangle
2 nd	1 hour Theory 2 hours Practical	Learn radiation physics part 2	Radiation Physics Part 2		

3rd	1 hour Theory 2 hours Practical	learn componer of x ray	Dental x ray film		
four	1 hour Theory 2 hours practical	Learn types of X ray	Types of x ray		
fifth	1 hour Theory 2 hours practical	Learn characteristics of x ray part 1	Characteristics Of x ray part 1		
six	1 hour Theory 2 hours practical	Learn characteristics of x ray part 2	Characteristics Of x ray part 2		
seven	1 hour Theory 2 hours practical	Learn processing of films	Processing films		
eight	1 hour Theory 2 hours practical	Discover dark room	Dark room		
nine	1 hour Theory 2 hours practical	Learn how take x ray film	Techniques takking x ray film		
Ten	1 hour Theory 2 hours practical	Interaction of ray with matter	Radiation biology		

Eleven	1 hour Theory 2 hours practical	To learn how to protect dentist and society	Radiation protection		
twelve	1 hour Theory 2 hours practical	To know Up normal anatomical landmarks	Normal anatomical landmarks upper jaw		
thirteen	1 hour Theory 2 hours practical	To know lower normal anatomical landmarks	Normal anatomical landmarks for u lower jaw		
Fourteen	1 hour Theory 2 hours practical	To know and aware errors that appear in x ray film	Radiographical artifacts		
fifteen	1 hour Theory 2 hours practical	To know radiographical technique	Dental x ray film		

11. Course Evaluation

Semester (100) is now distributed: 20 marks for the theoretical half semester, 20 marks for the theoretical half semester, 20 marks for the practical semester, and 40 marks for the theoretical semester

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	White and Pharoah's Oral Radiology 8 th edition
Recommended books and references (scientific journals, reports...)	Exercises_in_Oral_Radiology_and_Interpretation
Electronic References, Websites	

Course Description Form

1. Course Name: Oral surgery					
2. Course Code: 1 st course: BDEN001040 1					
3. Semester / Year: Semester/2025-2026					
4. Description Preparation Date: 8-3-2026					
5. Available Attendance Forms: weekly					
6. Number of Credit Hours (Total) / Number of Units (Total): 15 Hours Theory / 2 Units - 30 Hours Clinical / 2 Units					
7. Course administrator's name (mention all, if more than one name)					
Name: Lecturer Dr. Ali Qays Lilo Email: Ali.Lilo@uobabylon.edu.iq.					
8. Course Objectives					
Course Objectives					
*A profound knowledge about the principles of oral surgery.				•	
*Students learn the principles of oral diagnosis and treatment plan.				•	
*A profound knowledge of dental extraction.				•	
*Students learn different types of surgical instruments.					
9. Teaching and Learning Strategies					
Strategy		1- Thinking strategy according to student's ability. 2- Global thinking skill strategy. 3- Critical thinking strategy in learning.			
10. Course Structure: First course					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	1	Introduction to oral surgery	Introduction of oral surgery	Theoretical lectures	Theoretical exams
2	1	Definition of dental extraction	Dental extraction -part 1	Theoretical lectures	Theoretical exams
3	1	Indications of dental extraction	Dental extraction -part 2	Theoretical lectures	Theoretical exams
4	1	Contraindications of dental extraction	Dental extraction -part 3	Theoretical lectures	Theoretical exams
5	1	Principles of oral diagnosis	Oral diagnosis - part 1	Theoretical lectures	Theoretical exams
6	1	Principles of treatment plan	Oral diagnosis - part 2	Theoretical lectures	Theoretical exams
7	1	Types of dental forceps	Oral surgical instruments	Theoretical lectures	Theoretical exams
8	1	Learn mechanical principles of dental extraction	Mechanical principles of dental extraction	Theoretical lectures	Theoretical exams
9	1	Learn techniques of forceps extraction	Techniques of dental extraction	Theoretical lectures	Theoretical exams
10	1	Postoperative care and instructions	Postoperative dental extraction procedures	Theoretical lectures	Theoretical exams
11	1	Types of dental elevators and mechanical principles of their use	Dental elevators part1	Theoretical lectures	Theoretical exams
12	1	Clinical uses of dental elevators	Dental elevators part2	Theoretical lectures	Theoretical exams
13	1	Principles of considerations for dental extraction	General considerations and evaluations for dental extraction	Theoretical lectures	Theoretical exams
14	1	Knowledge of surgical tooth extraction	Surgical tooth extraction	Theoretical lectures	Theoretical exams
15	1	Principles of root removal	Dental root removal	Theoretical lectures	Theoretical exams

11. Course Evaluation

- 1- Conducting theoretical & practical exams.
- 2- Feedback from students.
- 3- The educational triangles.

Mid-degree= (20) practical + (20) theory
Final exam= (20) practical + (40) theory

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary oral & maxillofacial surgery.
Main references (sources)	

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

Course Description Form

1. Course Name: Oral surgery

2. Course Code: 2st course: BDEN 001044 2

3. Semester / Year: Semester/2025-2026

4. Description Preparation Date: 8-3-2026

5. Available Attendance Forms: weekly

6. Number of Credit Hours (Total) / Number of Units (Total): 2 units

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

Name: Lecturer HASSAN ESAM

Email: Hassan.essam@uobabylon.edu.iq.

8. Course Objectives

Course Objectives

*A profound knowledge about local and general anesthesia .

*Students learn the principles local anesthesia injection.

*A profound knowledge about complication of extraction .

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-

9. Teaching and Learning Strategies

Strategy

1- Thinking strategy according to student's ability.

2- Global thinking skill strategy.

3- Critical thinking strategy in learning.

10. Course Structure: First course

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
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1	1	Introduction to local anesthesia	Introduction of local anesthesia	Theoretical lectures	Theoretical exams
2	1	Pharmacology Of local anesthesia	Pharmacology of local anesthesia	Theoretical lectures	Theoretical exams
3	1	Pharmacology Of local anesthesia	Pharmacology Of local anesthesia	Theoretical lectures	Theoretical exams
4	1	Composition of local anesthesia	Composition of local anesthesia	Theoretical lectures	Theoretical exams
5	1	Instrument of local anesthesia	Instrument of local anesthesia	Theoretical lectures	Theoretical exams
6	1	Anatomy	Anatomy	Theoretical lectures	Theoretical exams
7	1	Intra operative complication of extraction	Intra operative complication of extraction	Theoretical lectures	Theoretical exams
8	1	Intra operative complication of extraction	Intra operative complication of extraction	Theoretical lectures	Theoretical exams
9	1	extra operative complication of extraction	Extra operative complication of extraction	Theoretical lectures	Theoretical exams
10	1	General anesthesia	General anesthesia	Theoretical lectures	Theoretical exams
11	1	Technique of local anesthesia	Technique of local anesthesia	Theoretical lectures	Theoretical exams
12	1	Technique of local anesthesia	Technique of local anesthesia	Theoretical lectures	Theoretical exams
13	1	Technique of local anesthesia	Technique of local anesthesia	Theoretical lectures	Theoretical exams
14	1	Conscious Sedative	Conscious Sedative	Theoretical lectures	Theoretical exams
15	1	Medical Emergency	Medical Emergency	Theoretical lectures	Theoretical exams

Course structure: second course

11. Course Evaluation

- 1- Conducting theoretical & practical exams.
- 2- Feedback from students.
- 3- The educational triangles.

Mid-degree= (20) practical + (20) theory
Final exam= (20) practical + (40) theory

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary oral & maxillofacial surgery.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name:	
prosthodontics (1 st course)	
2. Course Code:	
BDEN001041 1	
3. Semester:	
annual	
4. Description Preparation Date:	
8/3/2026	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15/30	
7. Course administrator's name (mention all, if more than one name)	
Assist. prof. Azad M.R. Almuthaffer	
8. Course Objectives	
Course Objectives	<p>First: Cognitive Objectives</p> <p>Upon completion of the Dental Prosthetics course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain an introduction to removable partial denture prosthodontics and the terminology used in the field. 2. List the main components of a removable partial denture. 3. Understand the general classification of partially edentulous arches. 4. Learn the Kennedy classification system for partially edentulous arches.

	<ol style="list-style-type: none"> 5. Identify the types and uses of the dental surveyor. 6. Describe the stages of treatment for removable partial dentures. 7. Learn how to block out undesirable areas on the master cast. 8. Discuss the duplication of the master cast. 9. List the types of major connectors used in maxillary removable partial dentures. 10. Understand the design of major connectors for maxillary removable partial dentures. 11. List the types of major connectors used in mandibular removable partial dentures. 12. Understand the design of major connectors for mandibular removable partial dentures. 13. Identify the types and positions of minor connectors. 14. Determine the junction line between acrylic and metal in removable partial dentures. 15. Study rests and rest seat preparations used in removable partial dentures. <p style="text-align: center;">Secondly: Skill-based Objectives</p> <ol style="list-style-type: none"> 1. Identify the anatomical landmarks used for the support and retention of removable partial dentures. 2. Differentiate between the methods used for taking preliminary and final impressions of the maxillary and mandibular arches. 3. Distinguish between the various techniques used to record the vertical and horizontal jaw relationships. 4. Acquire practical skills and laboratory procedures for the fabrication of removable partial dentures.
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9. Teaching and Learning Strategies

Strategy	<p>Teaching Methods:</p> <ul style="list-style-type: none"> • Lectures • Student-Centered Learning • Team Projects (student groups) • Workshops • Scientific field trips to observe various dental prosthetic cases
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- Learning Technologies on Campus: E-learning through uploading lectures to the college website dedicated to faculty lectures
- Experiential Learning: including laboratory experiments and educational clinics within the college
- Application-Based Learning: implemented through the student summer training program

Assessment Methods:

1. Conducting theoretical and practical examinations
2. Student seminars presented as part of the course
3. Student feedback collected through designated evaluation forms
4. The Learning Triangle

10. Course Structure

No.	Hours	required learning	Unit or subject name	Learning method	Evaluation
		Outcomes			method
First week	1	Introduction to removable partial denture prosthodontics	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Second week	1	Main components of a removable partial denture	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Third week	1	General classification of partially edentulous arches	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback

Fourth week	1	Kennedy's classification of partially edentulous arches	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fifth weeks	1	The dental surveyor	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Sixth week	1	Stages of treatment for removable partial dentures	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
seventh week	1	Blocking out undesirable areas on the master cast	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Ninth week	1	Duplication of the master cast	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Tenth week	1	Types of major connectors used in maxillary removable partial dentures	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Eleventh weeks	1	Design of major connectors for maxillary removable partial dentures	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback

Twelfth week	1	Types of major connectors used in mandibular removable partial dentures	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
thirteenth week	1	Design of major connectors for mandibular removable partial dentures	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fourteenth Week	1	Minor connectors	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fifteenth Week	1	The junction line between acrylic and metal in removable partial dentures	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback

11.Course Evaluation

The grade of the semester (100) is distributed as follows

The total course grade (100 marks) is allocated as follows: 40% for coursework (including 20% practical requirements and 20% midterm written exam), and 60% for the final assessment (including 40% final written exam and 20% practical requirements and seminars).

12 Learning and Teaching Resources

Required textbooks (methodology, if any)

Key references (sources)	B. C. Alan, T.B. David: McCracken's removable partial prosthodontics. 12th. edition, 2011. Elsevier, Mosby, Inc., Canada.
Recommended books and references (scientific journals, reports...)	Rodney A. Phoenix, David R. Cagna, Charles F. Defreest: Stewart's clinical removable prosthodontics. 2008, 4th. edition. Deepak Nallaswamy: Textbook of prosthodontics. 2011. Jaypee brothers medical publishers (P) LTD, India

Electronic references, websites	https://www.youtube.com/@AzadAlmuthaffer
Course Development Plan	<ul style="list-style-type: none">• Updating scientific content: • Practical and applied training:

Course Description Form

1. Course Name:	
prosthodontics (2 nd course)	
2. Course Code:	
BDEN001050 2	
3. Semester:	
annual	
4. Description Preparation Date:	
8/3/2026	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15/30	
7. Course administrator's name (mention all, if more than one name)	
Assist. prof. Azad M.R. Almuthaffer	
8. Course Objectives	
Course Objectives	<p>First: Cognitive Objectives</p> <p>Upon completion of the Dental Prosthetics course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Define intraoral direct retainers and describe their function in removable partial dentures. 2. Identify extraoral direct retainers and explain their indications and applications. 3. Describe circumferential clasps and their role in partial denture retention. 4. Explain bar clasps and their biomechanical advantages in removable partial dentures.

	<ol style="list-style-type: none"> 5. Define the R.B.I. system and its components in partial denture design. 6. Explain the concept of stress breakers and their importance in minimizing tissue stress. 7. Identify indirect retainers and describe their function in stabilizing removable partial dentures. 8. Describe partial denture bases and their role in distributing occlusal forces. 9. Explain the basic principles of biomechanics as applied to removable partial dentures. 10. Describe the general principles of removable partial denture design. 11. Compare removable partial dentures and fixed partial dentures, highlighting their differences. 12. Distinguish between tooth-supported and tooth-tissue-supported removable partial dentures. 13. Describe the clinical and laboratory steps involved in constructing a removable partial denture. 14. Identify the different types of acrylic removable partial dentures and their indications. 15. Describe the parts of an acrylic removable partial denture and their specific functions. <p style="text-align: center;">Secondly: Skill-based Objectives</p> <ol style="list-style-type: none"> 1. Intraoral direct retainers – designing, adjusting, and placing them requires hands-on skill. 2. Extraoral direct retainers – involves practical knowledge of design and fitting. 3. Circumferential clasps – requires manual dexterity for shaping and fitting. 4. Bar clasps – hands-on fabrication and adaptation are essential. 5. R.B.I system – practical application in partial denture design and placement.
9. Teaching and Learning Strategies	
Strategy	Teaching Methods: <ul style="list-style-type: none"> • Lectures • Student-Centered Learning

	<ul style="list-style-type: none"> • Team Projects (student groups) • Workshops • Scientific field trips to observe various dental prosthetic cases • Learning Technologies on Campus: E-learning through uploading lectures to the college website dedicated to faculty lectures • Experiential Learning: including laboratory experiments and educational clinics within the college • Application-Based Learning: implemented through the student summer training program
	<p>Assessment Methods:</p> <ol style="list-style-type: none"> 1. Conducting theoretical and practical examinations 2. Student seminars presented as part of the course 3. Student feedback collected through designated evaluation forms 4. The Learning Triangle

10. Course Structure

No.	Hours	required learning	Unit or subject name	Learning method	Evaluation
		Outcomes			method
First week	1	Intraoral direct retainers	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Second week	1	extraoral direct retainers	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback

Third week	1	Circumferential clasps	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fourth week	1	Bar clasps	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fifth weeks	1	R.B.I system	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Sixth week	1	Stress breakers	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
seventh week	1	Indirect retainer	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Ninth week	1	Partial denture bases	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Tenth week	1	Biomechanics of removable partial dentures	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback

Eleventh weeks	1	General principles of removable partial denture design	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Twelfth week	1	The differences between removable partial denture and fixed partial denture	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
thirteenth week	1	The differences between tooth supported and tooth tissue supported removable partial dentures	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fourteenth Week	1	Clinical and laboratory steps of removable partial denture construction	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback
Fifteenth Week	1	Acrylic removable partial denture (types)	prosthodontics	Theoretical Lectures, Practical Laboratories	Theoretical and Practical Examinations, Seminars, Student Feedback

11.Course Evaluation

The grade of the semester (100) is distributed as follows

The total course grade (100 marks) is allocated as follows: 40% for coursework (including 20% practical requirements and 20% midterm written exam), and 60% for the final assessment (including 40% final written exam and 20% practical

requirements and seminars).	
12 Learning and Teaching Resources	
Required textbooks (methodology, if any)	
Key references (sources)	B. C. Alan, T.B. David: McCracken's removable partial prosthodontics. 12th. edition, 2011. Elsevier, Mosby, Inc., Canada.
Recommended books and references (scientific journals, reports...)	Rodney A. Phoenix, David R. Cagna, Charles F. Defreest: Stewart's clinical removable prosthodontics. 2008, 4th. edition. Deepak Nallaswamy: Textbook of prosthodontics. 2011. Jaypee brothers medical publishers (P) LTD, India
Electronic references, websites	https://www.youtube.com/@AzadAlmuthaffer
Course Development Plan	<ul style="list-style-type: none"> ● Updating scientific content: ● Practical and applied training:

Academic Program Specification Form for The Academic

University: Babylon

College: Dentistry

Department: Pediatric dentistry & Orthodontics & Preventive dentistry

Subject: Community Dentistry

Date of Form Completion: 8 / 3 / 2026

PROGRAMMESPECIFICATION

This Programmed Specification provides a concise summary of the main features of the program and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the program.

1. Teaching Institution	Ministry of Higher Education & Scientific Research\ University of Babylon\ College of Dentistry
2. University Department/Centre	Pediatric dentistry & Orthodontics & Preventive dentistry
3. Program Title	Academic Program Specification
4. course name	First and second courses of community dentistry
5. Course Code:	First course BDEN001042 1 Second course BDEN001051 2
6. Description Preparation Date:	8/ 3 /2026 8/3/2026
7. 7. Course administrator's name (mention all, if more than one name)	Zahraa Mohammed Hussein wais Zahraa.Wais@uobabylon.edu.iq Dhuha malek hassen den129.duha.malik@uobabylon.edu.iq

8 Number of Credit Hours (Total)	45
9. Aims of the Program	
1- Preparing efficient personnel in the field of dentistry in Iraq.	
2- Contributing to the development of personnel working in the field of dentistry in state institutions and departments.	
3- Developing the capabilities of dentists	
4- Spreading oral and dental health awareness.	
10. Learning Outcomes, Teaching, Learning and Assessment Methods	
A. Cognitive goals	
A1. Formulating information in a way that enables students to understand and perceive	
A2. Increasing students' knowledge of dental examination methods in terms of caries and gingivitis	
A3. Giving instructions and advice for the correct position of the doctor during his treatment with the patient and the correct way to position the patient during the examination and treatment while sitting on the dental chair	
A4.	
A5.	
A6.	
B. The skills goals special to the programme.	
B1. Gaining experience and information that will help him identify the disease and know its causes	
B2. Identifying the dental chair and the correct sitting position for the patient and the doctor	
B3. Methods of examining tooth decay, gingivitis, calcifications and bacterial plate that help him/ her to be a successful dentist in dealing with patients and treating them	
Teaching and Learning Methods	
Giving all information related to oral diseases, especially to the community, and how to prevent them, and then following up on the student through the method of expression and thinking, speed of communication and response.	
Assessment methods	
Students are assessed by several means, including:	
<ul style="list-style-type: none"> - Approving the attendance of students for the theoretical lecture and the practical laboratory - Doing daily exams - Conducting mid-term, quarterly and final exams - Calculating a score for additional activities - Making reports 	

C. Affective and value goals

C1. Evaluating social behavior and students' achievements

C2. Urging the student to solve problems and to possess distinctive thinking

C3. Qualifying students to lead teams to serve the community and patients, treat them and raise awareness

C4.

Teaching and Learning Methods

Follow up the student's thinking style, expression and speed of response

Assessment methods

- Depends on the extent of attendance and commitment of the student to the lecture and keeping pace with the professors' explanations

- Taking a short exam to assess the student's understanding of the material presented and explained in the lecture

- Conducting planned exams such as the semester and final exams

- D. General and Transferable Skills (others skills relevant to employability and personal development)
- D1. Verbal communication
 - D2. Team work
 - D3. Analysis and investigation
 - D4. The initiative to develop ideas and solutions
 - D5. Communicate through writing
 - D 6. Planning and Organizing
 - D 7. Flexibility
 - D8. Time management

Teaching and Learning Methods

Assessment Methods

11. Programme Structure

Level/Year	Course or Module Code	Course or Module Title	Credit Hours	
			Practical	Theoretical
Third		Community Dentistry	30	15

13. Personal Development Planning

- Negotiation and Persuasion: The student should be able to influence others, persuade them, discuss them and reach an agreement.
- Leadership: The student should be able to lead, motivate and direct others.
- Independence at work: The student should be able to assume responsibility and independence by working under various circumstances.

14. Admission criteria.

The admission criteria include students who have a specific cumulative average according to the central admission system, as well as students who have the physical, mental and social ability to manage any medical condition or practice required by the study. Most dental schools require personal 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.

10. Course Structure					
Week	Hours	ILOs	Unit/ Module or Topic Title	Teaching Method	Assessment Method
1	1	Introduction to dental public health	Introduction to dental public health	theoretical lecture	Short, semester & final exams
2	1	Introduction to dental public health	Introduction to dental public health	theoretical lecture	Short, semester & final exams
3	1	Dental epidemiology and survey procedures	Dental epidemiology and survey procedures	theoretical lecture	Short, semester & final exams
4	1	Dental epidemiology and survey procedures	Dental epidemiology and survey procedures	theoretical lecture	Short, semester & final exams
5	1	Dental epidemiology and survey procedures	Dental epidemiology and survey procedures	theoretical lecture	Short, semester & final exams
6	1	Dental epidemiology and survey procedures	Dental epidemiology and survey procedures	theoretical lecture	Short, semester & final exams
7	1	Dental caries and periodontal disease as a community and economic problems	Dental caries and periodontal disease as a community and economic problems	theoretical lecture	Short, semester & final exams
8	1	Dental caries and periodontal disease as a community and economic problems	Dental caries and periodontal disease as a community and economic problems	theoretical lecture	Short, semester & final exams
9	1	Statistics: - Variables and graphs & Frequency distribution	Statistics: - Variables and graphs & Frequency distribution	theoretical lecture	Short, semester & final exams
10	1	Statistics Measuring of central tendency (mean, median, and mode (Range and standard deviation Probability and normal distribution	Statistics Measuring of central tendency (mean, median, and mode (Range and standard deviation Probability and normal distribution	theoretical lecture	Short, semester & final exams

11	1	Statistics Sampling distribution. Test hypothesis and significance (T-test Chi-square test)	Statistics Sampling distribution. Test hypothesis and significance (T-test Chi-square test)	theoretical lecture	Short, semester & final exams
12	1	Dental health education	Dental health education	theoretical lecture	Short, semester & final exams
13	1	Dental health education	Dental health education	theoretical lecture	Short, semester & final exams
14	1	Dental health education	Dental health education	theoretical lecture	Short, semester & final exams
15	1	Ethics	Ethics	theoretical lecture	Short, semester & final exams

Second semester

No.	Hours	Evaluation		
		Outcomes	Learning method	Assessment Method
First week	1	Dental ancillaries	Theoretical lecture	Short, semester & final exams
Second week	1	Dental ancillaries	Theoretical lecture	Short, semester & final exams
Third week	1	Primary teeth care	Theoretical lecture	Short, semester & final exams
Fourth week	1	Primary teeth care	Theoretical lecture	Short, semester & final exams
Fifth weeks	1	Planning for manpower requirements in	Theoretical lecture	Short, semester & final exams

		dental public health		
Sixth week	1	Planning for manpower requirements in dental public health	Theoretical lecture	Short, semester & final exams
seventh week	1	Planning for manpower requirements in dental public health	Theoretical lecture	Short, semester & final exams
Eight week	1	Dental treatment, needs, demands, and utilization	Theoretical lecture	Short, semester & final exams
Ninth week	1	Dental treatment, needs, demands, and utilization	Theoretical lecture	Short, semester & final exams
Tenth week	1	Dental treatment, needs, demands, and utilization	Theoretical lecture	Short, semester & final exams
Eleventh weeks	1	Public dental health program for Elderly people	Theoretical lecture	Short, semester & final exams
Twelfth week	1	Public dental health program for Handicapped (disability)	Theoretical lecture	Short, semester & final exams
thirteenth week	1	Public dental health program for School children and Mobile clinic	Theoretical lecture	Short, semester & final exams
Fourteenth Week	1	Forensic dentistry	Theoretical lecture	Short, semester & final exams

Fifteenth Week	1	Forensic dentistry	Theoretical lecture	Short, semester & final exams
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Course Description Form

1. Course Name:	
Biosafety	
2. Course Code:	
BDEN001048 2	
3. Semester:	
Course 2025-2026	
4. Description Preparation Date:	
2026/3/8	
5. Available Attendance Forms:	
Mandatory weekly attendance (theoretical + practical)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15 hrs. theory + 30 hrs. practical / 2 units	
7. Course administrator's name (mention all, if more than one name)	
<p>Prof. Dr. Ahmed Mohammed Abbas Almosawy dent.a.almosaui@uobabylon.edu.iq</p> <p>Assist Prof. Dr. Zainab Khader Ahmed, dent.zainab.almahdi@uobabylon.edu.iq</p> <p>Assist Prof. Dr. Luma J. Witwit dent.luma.jasim@uobabylon.edu.iq</p> <p>Assistant lecturer Dawlat Abdul Bari den110.a.a@uobabylon.edu.iq</p> <p>Lecture Dr. Doaa Adil Abood Den984.duaa.adel@uobabylon.edu.iq</p> <p>Assistant lecture Eman Abbas Aboud Den947.eman.abbas@uobabylon.edu.iq</p>	
8. Course Objectives	
Course Objectives	<p>First: Cognitive Objectives</p> <p>1- That the student understands biosafety</p>

	<p>2- To learn how to deal with personal protective equipment to protect himself and according to the guiding methods</p> <p>3- To identify the methods used and the steps required to manage biological and toxicological risks</p> <p>4- To apply the methods, techniques and materials for disinfection and disposal of hazardous materials and pollutants</p> <p>Secondly: Skill-based Objectives</p> <p>1-The student will identify and classify the different types of biological, chemical and toxic hazards</p> <p>2- The student distinguishes between the methods used for prevention, protection and disinfection</p> <p>3- Learn the ways and means of risk management and prevention</p>
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9. Teaching and Learning Strategies

Strategy	<p>1-Thinking skill according to the student's ability so that the student can rely on his abilities to think reasonably</p> <p>2-Understanding when, how, what and how to think to improve the ability to think.</p> <p>3-High thinking skill so that the student learns to think well before making a decision himself</p> <p>4-Critical thinking strategy in education</p> <p>Evaluation methods</p> <p>1- Conducting theoretical and practical exams</p> <p>2- Feedback from students</p> <p>3- Conducting short practical exams in the laboratory</p> <p>4- Learning triangle</p>
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10. Course Structure (Second course)

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First week	1 theoretical + 2 practical		Introduction in biosafety History of Biosafety Definitions & Concepts (Risk , Hazard, and threat)	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Second week	1 theoretical + 2 practical		Laboratory safety symbols and hazard signs. General Laboratory Practices	Theoretical lecture using Power Point and the Practical	Short and oral exams, semester and

				lectures Examining slides using a microscope	final exam
Third week	1 theoretical + 2 practical		Personal protective equipment (PPE). Routes of exposure Types of PPE Selection and proper use of PPE	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Fourth week	1 theoretical + 2 practical		Valuable biological materials Hazard Group classification system Relation of risk groups to biosafety levels	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Fifth weeks	1 theoretical + 2 practical		Labrotory Facilities and Safley Equipments Biosafety cabinet Classes Proper Use of a Biosafety cabinet	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Sixth week	1 theoretical + 2 practical		Introduction to Biosafety Levels (1,2,3,4) Laboratory Design and Physical Requirements, Operational	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
seventh week			Practices, Safety Equipment, Training Requirement		
Eighth week	1 theoretical + 2 practical		Standard Microbiology Techniques and Safety. Safe use of (pipettes ,centrifuge, homogenizers, shakers , blenders , and sonicators ,ampoules containing infectious materials) .	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Ninth week	1 theoretical + 2 practical		Types of Bio hazardous Waste Containers for Biohazardous Waste Obtaining and Discarding Containers Storage and Containment	Theoretical lecture using Power Point and the Practical lectures Examining slides	Short and oral exams, semester and final exam

				using a microscope	
Tenth week	1 theoretical + 2 practical		Disinfection and Decontamination Methods of Decontamination Disposal of Biohazardous Waste	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Eleventh weeks	1 theoretical + 2 practical		Hazardous chemicals (routes of exposure, storage of chemicals, general rules regarding chemical incompatibilities, toxic effects of chemicals , explosive chemicals, chemical spills , compressed and liquefied gases).	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Twelfth week	1 theoretical + 2 practical		Accident Response The cleanup of a chemical spill	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
thirteenth week	1 theoretical + 2 practical		Biosafety in Dentistry who work in Dentistry, safety procedures , prevention, protection and care.	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Fourteenth Week	1 theoretical + 2 practical		Biohazard Spill Cleanup Procedures	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam
Fifteenth Week	1 theoretical + 2 practical		Exam.	Theoretical lecture using Power Point and the Practical lectures Examining slides using a microscope	Short and oral exams, semester and final exam

11. Course Evaluation	
Semester grade (100) is distributed as follows: Theoretical semester exam 30 + 10 for the practical semester exam (for each semester) Final theoretical exam 40 + Final practical exam 20 (for each semester)	
12 Learning and Teaching Resources	
Required textbooks (methodology, if any)	
Key references (sources)	World Health Organization. <i>Laboratory biosafety manual</i> . Third edition. Geneva, World Health Organization, 2004
Recommended books and references (scientific journals, reports...)	- WHO. Biorisk management. Laboratory biosecurity guidance. September 2006. WHO/CDS/EPR/2006.6. -Training and educational materials on Biosafety and Biosecurity , The Biological Risk Management handbook, 2020 ,Ministry of Higher Education and Scientific Research and Ministry of Health
Electronic references, websites	(http://www.who.int/csr/resources/publications/biosafety/WHO_CDS_CSR_LYO_2004_11/en/) .
Course Development Plan	<ul style="list-style-type: none"> • Developing tissue laboratories to suit the requirements of scientific modernity • Follow modern methods in presenting scientific material • Search for the latest developments in scientific research and add them to the curriculum

Course Description Form

1. Course Name:	
Dental Ethics	
2. Course Code	
: BDEN001052 2	
3. Semester:	
2025/2026 (Semester)	
4. Description Preparation Date:	
2026-3-8	
5. Available Attendance Forms:	
Student attendance of lectures throughout the academic year	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30hours - 2 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Ass. Prof. Dr. Hassan Faleeh Farhan Email: dent.hasan.faleeh@uobabylon.edu.iq Name: lec. Dr. Duha Malek Hasan Email: den129.duha.malik@uobabylon.edu.iq Name: Lec. Zahraa Mohamed Hussein Wais Email: Zahraa.Wais@uobabylon.edu.iq Name: lect. Israa Hussien Ali Email: dent.israa.ali@uobabylon.edu.iq Name: Lect. Sarah Yousif Abass Email: sarah.abbas@uobabylon.edu.com Name: Lect. Mukaled Luoay Ali Email: mukhaled885@gmail.com	
8. Course Objectives	
Course Objectives	First: Cognitive Objectives 1-To enable the student to understand and apply fundamental ethical principles (independence, compassion, do no harm, and justice), 2- and to distinguish between correct and incorrect professional conduct. This also includes knowledge of patient rights, legal and professional obligations, and how to make sound ethical

	<p>decisions in the workplace.</p> <p>Secondly: Skill-based Objectives</p> <p>1- Ethical Communication: Acquiring effective communication skills with patients and treating them with respect, especially "difficult" patients.</p> <p>2- Decision Management: Practicing the analysis of ethical issues and making fair and sound clinical decisions that distinguish between right and wrong.</p> <p>3- Legal Documentation: Practicing the accurate recording and writing of patients' dental information to ensure their rights and secure records.</p> <p>4- Patient Respect: The ability to treat the patient as a whole, not just as a medical case (a holistic view), and to protect their privacy.</p>
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9. Teaching and Learning Strategies

Strategy	<p>Case-based learning: Analyzing real clinical situations involving ethical dilemmas (e.g., patient consent, confidentiality) to develop decision-making skills.</p> <ul style="list-style-type: none"> • Classroom discussions and small group activities: Fostering social interaction and the exchange of diverse perspectives on ethical issues. • Role-playing: Simulating scenarios between a doctor and a patient to practice communication skills and handling critical situations. • Problem-based learning (PBL): Guiding students to solve professional ethical problems as part of a team. • Brainstorming: Generating ideas and solutions for unclear ethical situations. • Reflective learning: Writing journals or reports about clinical trials that require ethical considerations.
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10. Course Structure

No.	Hours	Required Learning	Unit or subject name	Learning method	Evaluation
		Outcomes			method
First week	2	Dental Ethics	Professional Ethics Review	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams
second week	2	Dental Ethics	Professional Ethics Review	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams
third week	2	Dental Ethics	Principal Features of Dental Ethics	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams
fourth week	2	Dental Ethics	Ethical Law and ethical Theories	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams
fifth week	2	Dental Ethics	Fundamental Principles of dental ethics	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams
sixth week	2	Dental Ethics	Duties and obligation of dentists	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams
seventh week	2	Dental Ethics	Duties and obligation of dentists	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams

					- Final exams
eighth Week	2	Dental Ethics	Duties and obligation of dentists	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams

ninth week	2	Dental Ethics	Duties and obligation of dentists	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams
Tenth weeks	2	Dental Ethics	Ethical issues and challenges in dental practice	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams
eleventh week	2	Dental Ethics	Ethical issues and challenges in dental practice The impact of business on dentistry	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams
twelveth week	2	Dental Ethics	Ethics and dental research	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams

thirteenth week	2	Dental Ethics	Ethics and dental research	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams
fourteenth week	2	Dental Ethics	The standard of care Ethical Decision Making and Conflicting Obligations	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams
fifteenth Week	2	Dental Ethics	Studying a Profession's Central Values The duty to treat	Theoretical lecture using PowerPoint	- Quizzes -Midterm exams - Final exams

11.Course Evaluation	
<p>The grade of the semester (100) is distributed as follows The semester grade (out of 100) is distributed as follows: Midterm exam: 30% Final exam: 70%</p>	
12 Learning and Teaching Resources	
Required textbooks (methodology, if any)	
Key references (sources)	<p>Dental ethics at chairside second addition 2002</p> <p>Fdi dental ethics manual 2007^{1st} edition</p>
Recommended books and references (scientific journals, reports...)	Dentist's Handbook on Law and Ethics
Electronic references, websites	<p>Al-Rafidain Dental Journal (RDENTJ): Published by the University of Mosul, it follows the ethical policies of the Committee on Publication Ethics (COPE).</p> <p>Journal of Baghdad College of Dentistry: Frequently publishes research on knowledge and attitudes of Iraqi practitioners regarding ethical and professional behavior</p>
Course Development Plan	<ul style="list-style-type: none"> Updating scientific content: Adding modern topics that keep pace with technological

advancements (such as laser ethics, digital imaging, and dental implants).

- Focusing on ethical clinical skills: Training students in how to interact with patients, especially in complex or "difficult" cases.

- Integrating the Principles of Professional Ethics (ADA): Emphasizing the five core principles: patient autonomy, do no harm, benevolence, justice, and honesty.

- Developing teaching methods: Adopting problem-based learning (PBL), group discussions, and role-playing to enhance understanding of ethical dilemmas.

- Measuring outcomes: Conducting more interactive workshops and discussion groups to assess students' comprehension and application of ethical principles.

- Practical and applied training

Course Syllabus Description Form

1. Course Name:	
Oral and maxillofacial pathology	
2. Course Code:	
BDEN001053 1	
3. Semester / Year:	
2025-2026/ 1 st Semesters	8/3/2026
4. Course Description:	
<p>This course offers an inclusive study of the pathology of the oral and maxillofacial area, comprising the clinical features, etiology, pathogenesis, and diagnosis of various conditions and diseases affecting the jaws, oral cavity, and surrounding tissues. Students will learn to diagnose and recognize common oral and maxillofacial lesions, including infectious, inflammatory, and neoplastic conditions. The course will highlight the application of pathological principles to clinical practices and the importance of clinic-pathological correlation.</p>	
5. Available Attendance Forms:	
Came	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theory: 30 Clinical: 30	
7. Course administrator's name (mention all, if more than one name)	
<p>▪Name: Prof. dr.Suha Abdul-hassein hindi Email: dent.suha.abdul@uobabylon.edu.iq</p> <p>▪ Lecturer. Asmaa Sami Jawad Email: dent.asmaa.sami@uobabylon.edu.iq</p> <p>▪Assist-Lecturer: Qabas Muneam Abd Mohammed</p> <p>Email:</p>	
8. Course goals and learning objectives.	
<p>Goals: At the end of the course, the students will be able to:</p> <p>1-Understand the principles of pathology.</p> <p>2-Recognize and diagnose oral and maxillofacial lesions.</p>	<p>Objectives:</p> <p>1. Identify and describe the etiology and pathogenesis of oral and maxillofacial lesions.</p> <p>2. Recognize and diagnose common oral and maxillofacial lesions.</p> <p>3. Understand the clinical significance of oral and maxillofacial lesions.</p> <p>4. Develop a differential diagnosis.</p>

3-Develop critical thinking and problem-solving skills. 4-Apply knowledge in clinical practices.	5. Apply knowledge of oral and maxillofacial pathology to treatment planning.
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9. Teaching and Learning Strategies

Strategy	Using various modern devices and equipment to deliver material to students as needed, including: Data shows the projector. LCD screens. Electronic boards. Smart boards. Live streaming through digital cameras.
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10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2 hours theoretical 3 hours practical		Biopsy in oral pathology	Lectures, a data show, and a PowerPoint presentation.	Weekly short quizzes, Open discussion, brainstorming for students, mid-course exam, and final course exam
2			Healing in oral pathology		
3			Dental caries		
4			Pulpitis		
5			Periapical lesions		
6			Osteomyelitis		
7			Developmental disorders of teeth		
8			Developmental disorders of hard and soft tissues.		
9			Non-odontogenic		

			cysts		
10			Odontogenic cysts		
11			Odontogenic tumors 1		
12			Odontogenic tumors 2		
13			Benign epithelial lesion, leukoplakia		
14			Epithelial Hyperplasia, atrophy, and dysplasia		
15			Squamous cell carcinoma and other malignant epithelial neoplasms		

11. Course Evaluation

Number	Assessment Measurement	Score	Score distribution
1	First semester mid-exam	40 %	18% Practical exam 2% Quizzes. 20% Written exam.
2	First semester final exam	60 %	40% Written exam 20% Practical exam.
Total		100 %	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<p>1. Oral and Maxillofacial Pathology, fourth edition, Neville, Damm, Allen, CHI, Elsevier, 2016.</p> <p>2. Contemporary Oral and Maxillofacial Pathology, J. Philip Sapp, Lewis R. Eversole, George</p>
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	<p>P. Wysocki, second edition, Mospy, 2004.</p> <p>3. Essentials of Oral Pathology, Swapan Kumar Pukait,4th edition, Jaypee,2019.</p> <p>4. Cawson's Essentials of Oral Pathology and Oral Medicine, E.W. Odell, Ninth edition, Elsevier, ,2017.</p>
Main references (sources)	
<p>Recommended books and references (scientific journals, reports...)</p>	<p>1. Oral and Maxillofacial Pathology, fourth edition, Neville, Damm, Allen, CHI, Elsevier, 2016.</p> <p>2. Contemporary Oral and Maxillofacial Pathology, J. Philip Sapp, Lewis R. Eversole, George P. Wysocki, second edition, Mospy, 2004.</p> <p>3. Essentials of Oral Pathology, Swapan Kumar Pukait,4th edition, Jaypee,2019.</p> <p>4. Cawson's Essentials of Oral Pathology and Oral Medicine, E.W. Odell, Ninth edition, Elsevier, ,2017.</p>
Electronic Websites	References, Networks and websites

Course Syllabus Description Form

1. Course Name:	
Oral and maxillofacial pathology	
2. Course Code:	
BDEN001062 2	
3. Semester / Year:	
2025-2026/ 2nd Semesters	8/3/2026
4. Course Description:	
<p>This course offers an inclusive study of the pathology of the oral and maxillofacial area, comprising the clinical features, etiology, pathogenesis, and diagnosis of various conditions and diseases affecting the jaws, oral cavity, and surrounding tissues. Students will learn to diagnose and recognize common oral and maxillofacial lesions, including infectious, inflammatory, and neoplastic conditions. The course will highlight the application of pathological principles to clinical practices and the importance of clinic-pathological correlation.</p>	
5. Available Attendance Forms:	
Came	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theory: 30 Clinical: 30	
7. Course administrator's name (mention all, if more than one name)	
<p>▪Name: Prof. dr.Suha Abdul-hassein hindi Email: dent.suha.abdul@uobabylon.edu.iq</p> <p>▪ Lecturer. Asmaa Sami Jawad Email: dent.asmaa.sami@uobabylon.edu.iq</p> <p>▪Assist-Lecturer: Qabas Muneam Abd Mohammed</p> <p>Email:</p>	
8. Course goals and learning objectives.	
<p>Goals: At the end of the course, the students will be able to:</p> <ol style="list-style-type: none"> 1. Understand the principles of pathology. 2. Recognize and diagnose oral and maxillofacial lesions. 3. Develop critical thinking and problem-solving skills. 4. Apply knowledge in clinical practices. 	<p>Objectives:</p> <ol style="list-style-type: none"> 1. Identify and describe the etiology and pathogenesis of oral and maxillofacial lesions. 2. Recognize and diagnose common oral and maxillofacial lesions. 3. Understand the clinical significance of oral and maxillofacial lesions. 4. Develop a differential

				diagnosis. 5. Apply knowledge of oral and maxillofacial pathology to treatment planning.	
9. Teaching and Learning Strategies					
Strategy	Using various modern devices and equipment to deliver material to students as needed, including: Data shows the projector. LCD screens. Electronic boards. Smart boards. Live streaming through digital cameras.				
10. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2 hours theoretical 3 hours practical		Fibroosseous lesions, metabolic and genetic conditions.	Lectures, a data show, and a PowerPoint presentation.	Weekly short quizzes, open discussion, brainstorming for students, mid-course exam, and final course exam
2			Giant cell lesions		
3			Benign tumor of the bone		
4			Malignant tumor of the bone		
5			Viral infection		
6			Bacterial and fungal infection		
7			Immune-mediated disorders I		
8			Immune-mediated disorders II		
9			Connective		

			tissue lesion I		
10			Connective tissue lesion II		
11			Salivary gland disorders		
12			Salivary gland neoplasms		
13			Physical and chemical injuries		
14			Hematopoietic tumors		
15			Forensic dentistry		

11. Course Evaluation

Number	Assessment Measurement	Score	Score distribution
1	First semester mid-exam	40%	15% Practical exam 5% Quizzes. 20% Written exam.
2	First semester final exam	60%	40% Written exam 20% Practical exam.
Total		100%	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ol style="list-style-type: none"> 1. Oral and Maxillofacial Pathology, fourth edition, Neville, Damm, Allen, CHI, Elsevier, 2016. 2. Contemporary Oral and Maxillofacial Pathology, J. Philip Sapp, Lewis R. Eversole, George P. Wysocki, second edition, Mosby, 2004. 3. Essentials of Oral Pathology, Swapan Kumar Pukait, 4th edition, Jaypee, 2019. 5. Cawson's Essentials of Oral Pathology and 6. Oral Medicine, E.W. Odell, Ninth
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		edition, Elsevier, ,2017.
Main references (sources)		
Recommended books and references (scientific reports...)	journals,	1. Oral and Maxillofacial Pathology, fourth edition, Neville, Damm, Allen, CHI, Elsevier, 2016. 2. Contemporary Oral and Maxillofacial Pathology, J. Philip Sapp, Lewis R. Eversole, George P. Wysocki, second edition, Mosby, 2004. 3. Essentials of Oral Pathology, Swapan Kumar Pukait,4th edition, Jaypee,2019. 4. Cawson's Essentials of Oral Pathology and Oral Medicine, E.W. Odell, Ninth edition, Elsevier, ,2017.
Electronic Websites	References,	Networks and websites

Course Description Form

1. Course Name:
Periodontics
2. Course Code:
BDEN001054 1
3. Semester / Year:
Semesters
4. Description Preparation Date:
8-03-2026
5. Available Attendance Forms:
The student's attendance at lectures, clinics, and seminars is mandatory throughout the academic year.
6. Number of Credit Hours (Total) / Number of Units (Total)
Theory: 30 Clinical: 120
7. Course administrator's name (mention all, if more than one name)
Name: Assistant lecturer. Sarah Anwer Mohammad Ali Email: den254.sarah.anur@uobabylon.edu.iq Name: Fatima Malik Abood Email: dent.fatima.malik@uobabylon.edu.iq Name: Zeyad Nazar Majeed Email: dent.zeyad.nazar@uobabylon.edu.iq Email: Doaa Nemea doaaneamah@uobabylon.edu.iq Name: Sura Dakhil Jasim. Email: dent.sura.dakhil@uobabylon.edu.iq
8. Course Objectives: –The primary goal of the department is to raise public awareness about oral and dental health and to treat patients suffering from periodontal diseases. This is achieved by training a qualified cadre of students who will fulfill this role after graduation and serve in healthcare centers across Iraq.
–Educational Aspect: The department focuses on delivering lectures, organizing scientific seminars and symposia, and performing advanced surgical procedures to train students in these areas.
–Therapeutic and Preventive Aspect: The department currently provides treatment and follow-up for all periodontal and peri-implant diseases referred to the college, in addition to implementing preventive measures related to this field.

Course Objectives	<ul style="list-style-type: none"> • Understanding Periodontal Diseases: Gain a comprehensive understanding of periodontal anatomy, physiology, etiology, and pathogenesis to diagnose and manage periodontal diseases effectively. Treatment Planning and Management: Develop skills in treatment planning for various stages of periodontal diseases, including non-surgical and surgical therapies, and provide personalized patient education for optimal oral health. • Interdisciplinary Collaboration and Professionalism: Understand the importance of interdisciplinary collaboration with other dental specialists and healthcare providers, adhere to ethical principles in patient care, and demonstrate professionalism in communication and collaboration
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9. Teaching and Learning Strategies

Strategy	<p>Using various modern devices and equipment to deliver material students as needed, including:</p> <p>Data show projector LCD screens Electronic boards Smart boards Live streaming through digital cameras</p>
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10. First semester Structure

Week	Hours	Unit or subject name	Required Learning Outcomes	Learning method	Evaluation method
1	1	Periodontics	Terms & definitions frequently used in periodontology	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
2	1	Periodontics	Anatomy of the periodontium Oral mucosa -Gingiva o Macroscopic features: i- Marginal gingiva ii- Attached gingiva iii- Interdental papilla o Microscopic features: i- Oral epithelium ii- Sulcular epithelium iii- Junctional epithelium iv- Epithelial connective tissue interface v- Gingival connective tissue	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

			<ul style="list-style-type: none"> (gingival fibers and cellular elements) o Gingival sulcus and gingival crevicular fluid o Blood Supply, Lymphatics, and Nerves o Clinical features of gingiva in health and disease: <ul style="list-style-type: none"> i- Color <ul style="list-style-type: none"> •Physiologic pigmentation ii- Size iii- Contour iv- Shape v- Consistency vi- Texture vii- Position 		
3	1	Periodontics	<p>Anatomy of the periodontium - Periodontal ligaments (PDL)</p> <ul style="list-style-type: none"> o Cellular elements o Ground substance o Development of principal fibers of PDL o Functions of periodontal ligaments: <ul style="list-style-type: none"> i- Physical functions ii- Formative and Remodeling Function iii- Nutritional and sensory functions o Clinical consideration 	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
4	1	Periodontics	<p>Anatomy of the periodontium -Cementum</p> <ul style="list-style-type: none"> o Definition o Function of cementum o Classification of cementum: <ul style="list-style-type: none"> i- Acellular afibrillar cementum ii- Acellular extrinsic fiber cementum iii- Cellular mixed stratified cementum iv- Cellular intrinsic fiber cementum o Development and mineralization of cementum o Cementoenamel junction o Cementodentinal junction o Thickness of Cementum in response to physiologic and pathologic conditions <ul style="list-style-type: none"> i- Normal thickness ii- Cemental aplasia iii- Hypercementosis iv- Ankylosis v- neoplastic and nonneoplastic 	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
5	1	Periodontics	<p>Anatomy of the periodontium -Alveolar process</p> <ul style="list-style-type: none"> o Definition 	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments,

			<ul style="list-style-type: none"> o Function of alveolar process o Parts of the alveolar process <ul style="list-style-type: none"> i- Alveolar bone proper ii- An external plate of cortical bone iii- Cancellous trabeculae or spongy bone o Basal bone o Anatomic division of the alveolar process <ul style="list-style-type: none"> i- Interproximal bone ii- Inter radicular bone iii- Radicular bone o Composition of the bone <ul style="list-style-type: none"> i- Cellular elements ii- Organic components iii- Inorganic components o Haversian system or Osteon o Periosteum and Endosteum o Remodeling of alveolar bone 		and final exams
6	1	Periodontics	<p>Classification of periodontal diseases and conditions(2017)</p> <ul style="list-style-type: none"> - Reasons for classification - Major changes from previous classification - Periodontal health and gingival diseases and conditions <p>Periodontal health and gingival health:</p> <ul style="list-style-type: none"> o Clinical gingival health on an intact periodontium o Clinical gingival health on a reduced periodontium: <ul style="list-style-type: none"> i- Stable periodontitis ii- Non-periodontitis patients <p>The classification of dental biofilm induced gingivitis:</p> <ul style="list-style-type: none"> o Associated with bacterial dental biofilm only o Mediated by systemic or local risk factors <ul style="list-style-type: none"> i- Systemic conditions ii- Oral factors enhancing plaque accumulation o Drug-influenced gingival enlargements <p>Case definition of gingivitis:</p> <ul style="list-style-type: none"> o Gingivitis on an intact periodontium o Gingivitis on a reduced periodontium <p>Non-dental biofilm induced gingival disease:</p> <ul style="list-style-type: none"> o Genetic/developmental 	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

			<ul style="list-style-type: none"> disorders o Specific infections o Inflammatory and immune conditions and lesions o Reactive processes o Neoplasms o Endocrine, nutritional, and metabolic diseases o Traumatic lesions o Gingival pigmentation 		
7	1	Periodontics	<p>Classification of periodontal diseases and conditions(2017)</p> <p>-Periodontitis</p> <ul style="list-style-type: none"> o Periodontitis (Extent, Staging, Grading, Status, Risk factors) o Necrotizing periodontal diseases: <ul style="list-style-type: none"> i- Necrotizing gingivitis ii- Necrotizing periodontitis iii- Necrotizing Stomatitis(o Periodontitis as a manifestation of systemic disease <p>-Peri-implant disease and conditions§ :</p> <ul style="list-style-type: none"> o Peri- implant health o Peri-implant mucositis o Peri-implantitis o Peri-implant soft and hard tissues deficiency <p>§ For this topic, only a brief description for peri-implant disease and conditions is required. Further details will be covered in a dedicated lecture</p>	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
8	1	Periodontics	<p>Classification of periodontal diseases and conditions(2017)</p> <p>Other conditions affecting the periodontium</p> <p>-Periodontal abscess:</p> <ul style="list-style-type: none"> o Periodontal abscess in periodontitis patients o Periodontal abscess in non-periodontitis patients <p>-Endodontic periodontal lesions:</p> <ul style="list-style-type: none"> o Endo-periodontal lesions associated with endodontic and periodontal infections o Endo-periodontal lesions associated with trauma and iatrogenic factors <p>-Mucogingival deformity and conditions</p> <p>-Traumatic occlusal force</p>	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

			-Tooth and prosthetic related factors		
9	1	Periodontics	<p>Etiology of periodontal disease</p> <p>-Periodontal disease pathogenesis</p> <ul style="list-style-type: none"> o Mechanisms of pathogenicity o Histopathology of periodontal disease: <ul style="list-style-type: none"> i- Clinically healthy gingival tissues ii- Histopathology of gingivitis and periodontitis: <ul style="list-style-type: none"> •The initial lesion •The early lesion •The established lesion •The advanced lesion o Inflammatory responses in the periodontium: <ul style="list-style-type: none"> i- Microbial virulence factors: <ul style="list-style-type: none"> •Lipopolysaccharide •Bacterial enzymes •Microbial invasion •Fimbriae •Bacterial DNA ii- Host-Derived Inflammatory Mediators: <ul style="list-style-type: none"> •Cytokines •Prostaglandins • Matrix metalloproteinases 	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
10	1	Periodontics	<p>Etiology of periodontal disease and risk factors</p> <p>Dental plaque biofilm and periodontal microbiology</p> <p>- Definitions:</p> <ul style="list-style-type: none"> o Supragingival plaque o Subgingival plaque <p>- Structure of a mature dental plaque biofilm</p> <p>- Accumulation of a dental plaque biofilm:</p> <ul style="list-style-type: none"> o Formation of the pellicle o Initial adhesion/attachment of bacteria o Colonization and plaque maturation <p>- Factors affecting supragingival dental plaque formation:</p> <ul style="list-style-type: none"> o Topography of supragingival plaque o Surface microroughness o Individual variables that influence plaque formation o Variation within the dentition o Impact of gingival inflammation and saliva 	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

			<ul style="list-style-type: none"> o Impact of patient's age o Spontaneous tooth cleaning - Metabolism of dental plaque bacteria - Communication between biofilm bacteria - Biofilms and antimicrobial resistance 		
11	1	Periodontics	<ul style="list-style-type: none"> Microbiologic specificity of periodontal diseases - Traditional nonspecific plaque hypothesis - Specific plaque hypothesis - Updated nonspecific plaque hypothesis - Ecologic plaque hypothesis - Keystone Pathogen Hypothesis 	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
12	1	Periodontics	<ul style="list-style-type: none"> Dental calculus - Clinical appearance and distribution (Supragingival and Subgingival Calculus) - Calculus formation: <ul style="list-style-type: none"> o Theories of calculus formation - Calculus composition: <ul style="list-style-type: none"> o Inorganic content o Organic content - Attachment to tooth surfaces and implants - Clinical significance 	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
13	1	Periodontics	<ul style="list-style-type: none"> Dental stain - Color and color perception - Classification of tooth discoloration: <ul style="list-style-type: none"> o Intrinsic discoloration o Extrinsic discoloration o Internalized discoloration - The mechanisms of tooth discoloration - Prevention - Treatment approaches 	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
14	1	Periodontics	<ul style="list-style-type: none"> Etiology of periodontal disease - Risk factors for periodontal diseases: <ul style="list-style-type: none"> o Definitions of risk factors o Systemic risk factors: <ul style="list-style-type: none"> i- Modifiable risk factors ii- Non-modifiable risk factors o Local predisposing factors: <ul style="list-style-type: none"> i- Calculus ii- Iatrogenic factors iii- Margins of restorations iv- Malocclusion v- Associated with orthodontic therapy o Local anatomic risk factors 	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

15	1	Periodontics	Etiology of periodontal disease - Molecular biology of host-microbe interactions o Microbe-associated molecular patterns o Toll-like receptors: i- Toll-like receptor-4-lipopolysaccharide recognition ii- Toll-like receptor-2-lipoprotein/lipoteichoic acid/peptidoglycan recognition iii- Role of toll-like receptors in periodontitis o Complement system: i-Classical/Lectin/Alternative pathways ii- Role of complement in periodontitis	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
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11. Course Evaluation

Number	Assessment Measurement	Score distribution
1	Mid First semester	40% 20% Clinical requirement 20% Written exam
2	Final fist exam	60 % 40% Written exam 20% Practical exam
Total	100 %	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Carrnza's book Clinical Periodontology ELSEVIER Edition14 Year 2019 2- Lindh book Clinical Periodontology and Implant Dentistry :WILEY Blackwell Edition :6 Year :2015
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name:
Periodontics
2. Course Code:
BDEN001063 2
3. Semester / Year:
Semesters/ 2026–2026
4. Description Preparation Date:
8–03–2026
5. Available Attendance Forms:
The student's attendance at lectures, clinics, and seminars is mandatory throughout the academic year.
6. Number of Credit Hours (Total) / Number of Units (Total)
Theory: 30 Clinical: 120
7. Course administrator's name (mention all, if more than one name)
Name: Assistant lecturer. Sarah Anwer Mohammad Ali Email: den254.sarah.anur@uobabylon.edu.iq Name: Fatima Malik Abood Email: dent.fatima.malik@uobabylon.edu.iq Name: Zeyad Nazar Majeed Email: dent.zeyad.nazar@uobabylon.edu.iq Email: Doaa Nemea doaanemah@uobabylon.edu.iq Name: Sura Dakhil Jasim. Email: dent.sura.dakhil@uobabylon.edu.iq
8. Course Objectives: –The primary goal of the department is to raise public awareness about oral and dental health and to treat patients suffering from periodontal diseases. This is achieved by training a qualified cadre of students who will fulfill this role after graduation and serve in healthcare centers across Iraq.
–Educational Aspect: The department focuses on delivering lectures, organizing scientific seminars and symposia, and performing advanced surgical procedures to train students in these areas.
–Therapeutic and Preventive Aspect: The department currently provides treatment and follow–up for all periodontal and peri–implant diseases referred to the college, in addition to implementing preventive measures related to this field.

Course Objectives	<ul style="list-style-type: none"> • Understanding Periodontal Diseases: Gain a comprehensive understanding of periodontal anatomy, physiology, etiology, and pathogenesis to diagnose and manage periodontal diseases effectively. Treatment Planning and Management: Develop skills in treatment planning for various stages of periodontal diseases, including non-surgical and surgical therapies, and provide personalized patient education for optimal oral health. • Interdisciplinary Collaboration and Professionalism: Understand the importance of interdisciplinary collaboration with other dental specialists and healthcare providers, adhere to ethical principles in patient care, and demonstrate professionalism in communication and collaboration
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9. Teaching and Learning Strategies

Strategy	<p style="text-align: center;">Using various modern devices and equipment to deliver material students as needed, including:</p> <p style="text-align: center;">Data show projector LCD screens Electronic boards Smart boards Live streaming through digital cameras</p>
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10. Second semester Structure

Week	Hours	Unit or subject name	Required Learning Outcomes	Learning method	Evaluation method
1	1	Etiology of periodontal disease and risk factors - Smoking and Periodontal Disease o Effects of smoking on the prevalence and severity of periodontal diseases: i- Gingivitis ii- Periodontitis o Effects of smoking on the etiology and pathogenesis of periodontal disease: i- Microbiology ii- Immune-inflammatory responses iii- Physiology o Effects of smoking on the response to periodontal therapy: i- Nonsurgical Therapy ii- Surgical Therapy and Implants iii- Maintenance Therapy o Effects of smoking cessation on periodontal treatment outcomes	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

2	1	<p>Impact of periodontal infection on systemic health</p> <ul style="list-style-type: none"> - Focal infection theory revisited - Subgingival environment as a reservoir for bacteria - Periodontal disease, coronary heart disease, and atherosclerosis: <ul style="list-style-type: none"> o Ischemic heart disease o Atherosclerosis - Periodontal disease and stroke - Periodontal disease and diabetes mellitus: <ul style="list-style-type: none"> o Periodontal infection associated with glycemic control in diabetes 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
3	1	<p>Impact of periodontal infection on systemic health</p> <ul style="list-style-type: none"> - Periodontal disease and asthma - Periodontal disease and pregnancy outcome - Periodontal disease and chronic obstructive pulmonary disease - Periodontal disease and acute respiratory infections 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
4	1	<p>Periodontal indices</p> <ul style="list-style-type: none"> o Definition o Gingival index (Loe and Silness) o Plaque index (Silness and Loe) o Plaque index (O'leary) o Plaque index (Quigely Hein) o Probing pocket depth o Clinical attachment loss o Basic Periodontal Examination (BPE) o Modified Gingival Index o Bleeding on probing o Furcation involvement index o Calculus index o Recession index (Miller) o Recession index (Cairo) 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
5	1	<p>The periodontal pocket</p> <ul style="list-style-type: none"> - Classification - Clinical features - Pathogenesis - Histopathology: <ul style="list-style-type: none"> o Bacterial invasion o Microtopography of the gingival wall o Periodontal pockets as healing lesions o Pocket contents o Root surface walls 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
6	1	<p>The periodontal pocket</p> <ul style="list-style-type: none"> - Periodontal disease activity - Pulp changes associated with periodontal pockets 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and

		<ul style="list-style-type: none"> - Relationship of attachment loss and bone loss to pocket depth - Area between base of pocket and alveolar bone - Relationship of pocket to bone - Periodontal abscess - Lateral periodontal cyst 			final exams
7	1	<p>Treatment plan guidelines§</p> <ul style="list-style-type: none"> - Phase 1 (behavior change, removal of supragingival dental biofilm and risk factor control): <ul style="list-style-type: none"> o Self-performed supragingival biofilm control: <ul style="list-style-type: none"> i- Oral hygiene practices to control gingival inflammation ii- Behavioral change for oral hygiene improvement iii- Motivational interviewing and cognitive behavioral therapy o Adjunctive therapies for gingival inflammation o Professional supragingival dental biofilm control o Risk factor control: <ul style="list-style-type: none"> i- Local risk factor control ii- Tobacco smoking cessation interventions iii- Promotion of diabetes control interventions 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
8	1	<p>Treatment plan guidelines</p> <ul style="list-style-type: none"> - Phase 2 (cause-related therapy) <ul style="list-style-type: none"> o Subgingival instrumentation: <ul style="list-style-type: none"> Scaling Root planing o Removal of plaque-retentive factors o Use of adjunctive systemically administered antibiotics to subgingival instrumentation o Re-evaluation of the cause-related therapy o Decision to refer for specialist 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
9	1	<p>Treatment plan guidelines</p> <ul style="list-style-type: none"> - Phase 3 (corrective/surgical phase) <ul style="list-style-type: none"> o Objectives of surgical therapy o Periodontal access surgery: <ul style="list-style-type: none"> i- Resective ii- Regenerative o Extraction of hopeless teeth o Periodontal plastic surgery: <ul style="list-style-type: none"> i- Mucogingival surgery ii- Aesthetic crown lengthening o Pre-prosthetic surgery: <ul style="list-style-type: none"> i- Crown lengthening ii- Implant site preparation 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

10	1	<p>Treatment plan guidelines</p> <ul style="list-style-type: none"> - Phase 4 (maintenance therapy) o Clinical recommendations o Self-performed supragingival dental biofilm control o Adjunctive therapies for gingival inflammation o Professional supragingival dental biofilm control o Risk factor control 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
11	1	<p>Plaque biofilm control for the periodontal patient</p> <ul style="list-style-type: none"> - The toothbrush: <ul style="list-style-type: none"> o Toothbrush design - Powered toothbrushes - Dentifrices - Toothbrushing methods - Interdental cleaning aids: <ul style="list-style-type: none"> o Dental floss o Interdental brushes o Other interdental cleaning devices - Oral irrigation: <ul style="list-style-type: none"> o Supragingival irrigation o Subgingival irrigation - Caries control 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
12	1	<p>Plaque biofilm control for the periodontal patient</p> <ul style="list-style-type: none"> - Chemical plaque biofilm control with oral rinses <ul style="list-style-type: none"> o Chlorhexidine digluconate: <ul style="list-style-type: none"> i- Mode of action ii- Clinical use iii- Side-effects o Nonprescription essential oil rinse o Other products - Disclosing agents - Patient motivation and education: <ul style="list-style-type: none"> o Motivation for effective plaque biofilm control o Education and scoring systems: <ul style="list-style-type: none"> i- Plaque biofilm control record (O'Leary Index) ii- Bleeding points index o Instruction and demonstration 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
13	1	<p>Periodontal instruments and sharpening</p> <ul style="list-style-type: none"> - Types of periodontal instruments: <ul style="list-style-type: none"> i- Diagnostic instruments ii- Scaling, root planing, and curettage instruments <ul style="list-style-type: none"> • Plastic and Titanium Instruments for Implants iii- Cleansing and polishing instruments iv- Surgical instruments 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

		<ul style="list-style-type: none"> - Instrument stabilization: <ul style="list-style-type: none"> i- Instrument Grasping ii- Finger Rest - Condition of the instruments and resharpener 			
14	1	<p>Breath Malodor (Halitosis)</p> <ul style="list-style-type: none"> - Definitions - Epidemiology - Classification - Etiology: <ul style="list-style-type: none"> o Intraoral Causes: <ul style="list-style-type: none"> i- Tongue and tongue coating ii- Periodontal infections iii- Dental disorders iv- Dry mouth o Extraoral Causes <ul style="list-style-type: none"> o Pseudo-halitosis or Halitophobia - Diagnosis of malodor - Prevention and management: <ul style="list-style-type: none"> o Mechanical reduction of intraoral nutrients and microorganisms o Chemical reduction of oral microbial load: <ul style="list-style-type: none"> i- Chlorhexidine ii- Essential oils iii- Chlorine dioxide iv- Two-phase oil-water rinse v- Triclosan vi- Hydrogen Peroxide vii- Amine Fluoride or Stannous Fluoride o Conversion of volatile sulfur compounds: <ul style="list-style-type: none"> i- Metal Salt Solutions o Masking the Malodor 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
15	1	<p>Systemic anti-infective therapy for periodontal diseases^s</p> <ul style="list-style-type: none"> - Definitions - Common antibiotic regimens used to treat periodontal diseases - Tetracyclines: <ul style="list-style-type: none"> o Specific agents: <ul style="list-style-type: none"> i- Tetracycline ii- Minocycline iii- Doxycycline o Metronidazole o Penicillin derivatives: <ul style="list-style-type: none"> i- Amoxicillin ii- Amoxicillin–Clavulanate Potassium o Cephalosporins o Clindamycin o Ciprofloxacin o Macrolides - Single vs combination antibiotic therapy o Clinical implications 	Periodontics	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

11. Course Evaluation

Number	Assessment Measurement	Score distribution
1	Mid second semester 40 %	20% Clinical requirement 20% Written exam
2	Final second exam 60%	20% Written exam 40% Practical exam
Total	100 %	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Carrnza's book Clinical Periodontology ELSEVIER Edition14 Year 2019 2- Lindh book Clinical Periodontology and Implant Dentistry :WILEY Blackwell Edition :6 Year :2015
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name: Dental & Oral surgery	
2. Course Code: 1 st course: BDEN001055 1	
2. Course code: 2 nd course: BDEN0010642	
3. Semester: Semester/2025-2026	
4. Description Preparation Date: 8-3-2026	
4.	8-3-2026
5. Available Attendance Forms: attendance in the classroom for theoretical course/ weekly	
6. Number of Credit Hours (Total) / Number of Units (Total):	
30 hours theoretical /2 units- 60 hours practical/4 units.	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof. Ahmed Salah Hameed Email: dent.ahmed.salah@uobabylon.edu.iq.	
8. Course Objectives	
Course Objectives	<p>First: Cognitive Objectives</p> <p>*A profound knowledge about the principles of oral & dental</p>

	<p>surgery.</p> <ul style="list-style-type: none"> *Experience in management of medically compromised patients. *Experience in diagnosis and treatment of surgical conditions. *Students learn how to deal with patients with systemic diseases from legal point of view. *Students learn how to use surgical instruments. <p style="text-align: center;">Secondly: Skill-based Objectives</p>
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9. Teaching and Learning Strategies

Strategy	<ol style="list-style-type: none"> 1- Thinking strategy according to student's ability. 2- Global thinking skill strategy. 3- Critical thinking strategy in learning. 4-
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10. Course Structure

No.	Hours	Required Learning		Unit or subject name	Learning method	Evaluation
		Outcomes				
First week	2	How to avoid complications of C.V.D during tooth extraction	Cardiovascular diseases -part 1	Theoretical Lecture using power point system	Theoretical exam mid- course and final course	
Second week	2	How to avoid complications during tooth extraction.	Cardiovascular diseases -part 2	Theoretical lecture Using power point system	Theoretical exam mid- course and final course	
Third week	2	How to avoid bleeding during tooth extraction.	Bleeding disorders & blood dyscrasia	Theoretical lecture Using power point system	Theoretical exam mid- course and final course	
Fourth week	2	How to avoid Complications during tooth extraction	Endocrinology diseases	Theoretical lecture using power point system	Theoretical exam mid- course and final course	

fifth weeks	2	How to avoid complications	Respiratory diseases-part 1	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Sixth week	2	How to avoid complications	Respiratory diseases-part 2	Theoretical lecture using power point system	Theoretical exam mid- course and final course
seventh week	2	How to avoid complications	Liver disease	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Eighth week	2	How to avoid complications	Renal failure hemodialysis	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Ninth week	2	How to avoid complications	Neurological diseases (epilepsy & stroke)	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Tenth week	2	How to avoid complications	Pregnancy	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Eleventh weeks	2	How to avoid complications	HIV & AIDS	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Twelfth week	2	How to avoid complications	Allergy-part	Theoretical lecture using power point system	Theoretical exam mid- course and final course
thirteenth week	2	How to avoid complications	Allergy -part	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Fourteenth Week	2	How to avoid complications	Patients on chemotherapy	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Fifteenth Week	2	How to avoid complications	Patients on radiotherapy	Theoretical lecture using power point system	Theoretical exam mid- course and final course

Second semester

No.	Hours	Required Learning	Unit or subject name	Learning method	Evaluation
		Outcomes			method
First week	2	Learning types of dental infections	Odontogenic infections - part 1	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Second week	2	Types of upper & lower fascial space infections	Fascial space infection of upper & lower jaws- part 2	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Third week	2	How to manage fascial space infection	Management of fascial space infection- part 3	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Fourth week	2	How to avoid complications	Principles of Flaps, suturing and management of difficult extraction	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Fifth weeks	2	How to avoid complications	Principles of management of impacted teeth-lower impacted teeth-1	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Sixth week	2	How to avoid complications	Impacted upper third molars-2	Theoretical lecture using power point system	Theoretical exam mid- course and final course
seventh week	2	How to avoid complications	Impacted upper canine & other teeth-3	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Eighth week	2	How to perform orthodontics procedures	Surgical aids to orthodontics	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Ninth week	2	Indications & contraindications	Principles of endodontic surgery	Theoretical lecture using power point system	Theoretical exam mid- course and final course

Tenth week	2	How to perform surgical procedure	Endodontic surgical procedures	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Eleventh weeks	2	How to manage these infections	Osteomyelitis and osteonecrosis of the jaws	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Twelfth week	2	Learning principles of dental implants	Dental Implants: Basic Concepts and Techniques	Theoretical lecture using power point system	Theoretical exam mid- course and final course
thirteenth week	2	Learning surgical procedures of dental implants	Surgical Treatment Planning Considerations	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Fourteenth Week	2	How to take surgical biopsy	Biopsy in oral and maxillofacial surgery	Theoretical lecture using power point system	Theoretical exam mid- course and final course
Fifteenth Week	2	Learning the imaging techniques in oral & maxillofacial region	Diagnostic imaging In oral and maxillofacial surgery	Theoretical lecture using power point system	Theoretical exam mid- course and final course

11.Course Evaluation

The grade of the semester (100) is distributed as follows

- 1- Conducting theoretical & scientific exams.
- 2- Feedback from students.
- 3- The educational triangles.
- 4- Conducting practical examinations in educational clinics for medical & dental conditions.

Mid-degree= (20) practical + (20) theory
Final exam= (20) practical + (40) theory

12 Learning and Teaching Resources

Required textbooks (methodology, if any)

Key references (sources)

- 1-Contemporary oral & maxillofacial surgery.
- 2-dental management of medically compromised patients.

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

Electronic references, websites	
Course Development Plan	Updating scientific content: Practical and applied training: Tooth extraction and the use of surgical instruments.

Course Description Form

1. Course Name:	
Basic prosthodontics	
2. Course Code:	
BDEN001056 1	
3. Semester / Year:	
2025-2026/ 1 st and 2 nd Semesters	
4. Description Preparation Date:	
8/3/2026	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theory: 2 Clinical: 2.5	
7. Course administrator's name (mention all, if more than one name)	
Name: Assistant. Prof <i>Hanan Ali Hameed</i> Email: hanan.ali@uobabylon.edu.iq	
8. Course Objectives	
Course Objectives	<p>A-Cognitive goals.</p> <p>A1- To understand the modern concepts and the development of knowledge in the field of prosthetics.</p>

A2- To classify the devices and materials used in the manufacture of the complete and partial artificial jaw.
 A3- Determine the methods used and the steps required to diagnose problems caused by complete and partial tooth loss.
 A4- To apply modern methods in the manufacture of artificial prostheses

B. The skills goals special to the course.

B1- That the student determines the anatomical signs that he uses to construct and support the complete denture.
 B2- That the student distinguishes between the methods used to take primary and final impressions of the upper and lower jaw.
 B3- To differentiate between the various types of methods used to record the vertical and horizontal relationship between the jaws.
 B4- To learn practical skills and laboratory steps to fabricat complete and partial denture

9. Teaching and Learning Strategies

Strategy

Using various modern devices and equipment to deliver material to students as needed, including:

- Data show projector
- LCD screens
- Electronic boards
- Smart boards
- Live streaming through digital cameras

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		To distinguish the anatomical features of upper and lower jaw (bone).	Anatomy and physiology related to prosthodontic prosthesis (osteology)		
2		To distinguish the anatomical features of upper and lower jaw (muscles).	Anatomy and physiology related to prosthodontic (myology)		
3	Depending schedule	to diagnosis and put treatment plan for the fabrication of removal partial denture cobalt chrome.	Diagnosis and treatment planning for CrCo RPD	theoretical and practical lectures	<ul style="list-style-type: none"> • Conducting theoretical and practical exams • Feedback from students • Conducting practical exams in educational clinics for medical cases for all dental specialties
4		to diagnosis and put treatment plan for the fabrication of removal partial denture cobalt chrome.	Diagnosis and treatment planning for CrCo RPD		
5		To prepare the patient receive the removable partial denture chrome cobalt.	Preparation of the mouth receive an RPD		
6		to know the dental materials that used to the impression of partial denture.	Impression materials techniques for RPD		
7		To know the method taking the impression the removable partial denture.	Impression materials techniques for RPD		
8		To know the types	Support for the D		

		supporting structures the oral cavity.	Extension Denture Base		
9		To try in the framework	Framework try in removable partial denture		
10		Determine the occlusal relationship of the patient's denture.	Occlusal Relationship Removable Partial Denture		
11		To try a partial denture	Trial denture: The try appointment		
12		To place and examine partial denture in patient's mouth.	Insertion of partial denture		
13		To place and examine partial denture in patient's mouth.	Insertion of partial denture		
14		Repair of fractured RPD	Repair of fractured RPD		
15		Repair of fractured RPD	Repair of fractured RPD		

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

Number	Assessment Measurement		Score distribution
1	First semester mid exam	40 %	20% Clinical requirement 20% Written exam
2	First semester final exam	60 %	40% Written exam 20% Practical exam
Total		100 %	
3	second semester mid exam	40 %	20% Clinical requirement 20% Written exam
4	Second semester final exam	60 %	40% Written exam 20% Practical exam
Total		100 %	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<p>1. Zarb GA, Bolender CL. Prosthodontic treatment for edentulous patients. 12th edition. 2004;Mosby, USA.</p> <p>2. SaradhaD.L.ZakirHussain , Uthkarsh. Text book of complete denture prosthodontics. 2007;Jaypee , India</p> <p>McCracken's. Glen P,McGivney , Alan B, Carr.Textbook of prosthodonti Tenth edition.</p>
Main references (sources)	<p>1. Zarb. Hobkirk. Eckert. Jacob. Prosthodontic treatment for edentulous patients. 13th edition. 2012;Mosby, USA.</p> <p>Deepak NV, Karthikeyan R, Vinaya B. Textbook of prosthodontics. 200 Jaypee, India.</p>
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name:		
Basic prosthodontics		
2. Course Code:		
BDEN001065 2		
3. Semester / Year:		
2025-2026/ 1 st and 2 nd Semesters		
4. Description Preparation Date:		
2026-3-8		
5. Available Attendance Forms:		
6. Number of Credit Hours (Total) / Number of Units (Total)		
Theory: 2 Clinical: 2.5		
7. Course administrator's name (mention all, if more than one name)		
Name: Assistant. Prof. <i>Hanan Ali</i>		
Email: hanan.ali@uobabylon.edu.iq		
8. Course Objectives		
Course Objectives		A-Cognitive goals. A1- To understand the modern concepts and the development of knowledge in the field of prosthetics.

A2- To classify the devices and materials used in the manufacture of the complete and partial artificial jaw.
 A3- Determine the methods used and the steps required to diagnose problems caused by complete and partial tooth loss.
 A4- To apply modern methods in the manufacture of artificial prostheses

B. The skills goals special to the course.
 B1- That the student determines the anatomical signs that he uses to construct and support the complete denture.
 B2- That the student distinguishes between the methods used to take primary and final impressions of the upper and lower jaw.
 B3- To differentiate between the various types of methods used to record the vertical and horizontal relationship between the jaws.
 B4- To learn practical skills and laboratory steps to fabricat complete and partial denture

9. Teaching and Learning Strategies

Strategy

Using various modern devices and equipment to deliver material to students as needed, including

- Data show projector
- LCD screens
- Electronic boards
- Smart boards
- Live streaming through digital cameras

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		To know the operation preprosthetic surgery before RPD construction (hard tissue)	Pre prosthetic surgery (hard tissue)		
2		To know the operation preprosthetic surgery before RPD construction (soft tissue)	Pre prosthetic surgery (hard tissue)		
3	Depending schedule	to diagnosis and treatment plan for fabrication of complete denture	Diagnosis and Treatment plan Complete Denture	theoretical and practical lecturers	<ul style="list-style-type: none"> • Conducting theoretical and practical exams • Feedback from students • Conducting practical exams in educational clinics for medical cases for all dental specialties
4		to know the dental materials that used to the impression of complete denture.	Impression for complete denture		Short quizzes, mid-term exams, end-of-semester assessments, and final exam
5		To know the Anatomy of the TMJ and Mandibular Movement	Anatomy of the TMJ and Mandibular Movement		Short quizzes, mid-term exams, end-of-semester assessments, and final exam
6		Determine the occlusal relationship of complete denture.	Vertical jaw relation		
7		Determine the occlusal relationship of complete denture.	Vertical jaw relation		
8		Determine the occlusal relationship of complete denture.	Horizontal jaw relations		
9		To try a complete denture in the oral cavity	Trial denture :The try in appointment		

10	To place and examine partial denture in patient's mouth	Insertion of CD		Insertion of CD
11	To place and examine partial denture in patient's mouth	Adjustments of CD		Adjustments of CD
12	.to know the complicat after insertion	Post insertion complications in CD		Post insertion complications in C
13	to know the complicat after insertion	Post insertion complications in C (continue)		Post insertion complications in C (continue)
14	to do Relining Complete Dentures	Relining and rebasing of CD		Relining and rebasing of CD
15		Esthetic denture materials		Esthetic denture materials

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

Number	Assessment Measurement	Score distribution
1	First semester mid exam	40 % 20% Clinical requirement 20% Written exam
2	First semester final exam	60 % 40% Written exam 20% Practical exam
Total		100 %
3	second semester mid exam	40 % 20% Clinical requirement 20% Written exam
4	Second semester final exam 60 %	40% Written exam 20% Practical exam
Total		100 %

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ol style="list-style-type: none"> 1. Zarb GA, Bolender CL. Prosthodontic treatment for edentulous patients. 12th edition. 2004; Mosby, USA. 2. SaradhaD.L.ZakirHussain , Uthkarsh. Text book of complete denture
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	<p>prosthodontics. 2007; Jaypee, India</p> <p>McCracken's. Glen P, McGivney , Alan B, Carr. Textbook of prosthodontics. Tenth edition.</p>
Main references (sources)	<p>1. Zarb. Hobkirk. Eckert. Jacob. Prosthodontic treatment for edentulous patients. 13th edition. 2012; Mosby, USA.</p> <p>Deepak NV, Karthikeyan R, Vinaya B. Textbook of prosthodontics. 2012; Jaypee, India.</p>
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name:					
Clinical Operative and Aesthetic Dentistry					
2. Course Code:					
BDEN001057 1					
3. Semester / Year:					
Fourth year/ 1st. semester					
4. Description Preparation Date:					
8/ 3 / 2026					
5. Available Attendance Forms:					
In Office Hands on course					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theory:1 Practical:3/ units: 2.5					
7. Course administrator's name (mention all, if more than one name)					
Name: 1- Prof.Dr. Ameer Hamdi Al-Ameedee Email: dent.ameer.hamdi@uobabylon.edu.iq					
8. Course Objectives					
<p>A.Cognitive goals: To enable students to gain Medical and dental Knowledge of:</p> <p>A1. Basic Knowledge about the principles of clinical operative dentistry</p> <p>A2. Basic Knowledge about the principles of esthetic dentistry materials and techniques</p> <p>A3. Clinical training for the skills of the above treatments.</p> <p>A4. the impact of social factors on oral health and disease.</p> <p>A5. the basic scientific and ethical principles of clinical research.</p>			<p>B. The skills goals special to the programme .</p> <p>B1. To enable students to apply scientific methods to the practice of dentistry for the identification of problems, data collection, hypothesis formulation, and the application of deductive reasoning to problem solving, clinical reasoning, and decision-making.</p> <p>B2. To successfully integrate collected clinical information to carry out appropriate diagnostic and treatment plans for patients across the broad spectrum of acute and chronic conditions.</p> <p>B3. To perform basic risk assessments and formulate plans to promote patient wellbeing.</p>		
9. Teaching and Learning Strategies					
Strategy		<ul style="list-style-type: none"> • A data show projector is used for direct lectures • Microsoft power point for lecture presentations • Live demonstrations • Preclinical and clinical training with direct supervision • Group Seminars , group meeting, instructions and Discussion • Graduation Research 			
10. Course Structure					
Week	Hours	Unit or subject name	Required Learning	Learning method	Evaluation method

			Outcomes		
1	1	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry. Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry	<p>Affective and value goals</p> <p>1. To affectively counsel and educate patients and their families.</p> <p>2. To design diagnostic and treatment options in a manner that will help the participation of patients and their families in shared decision-making.</p> <p>3. To effectively communicate with members, including both dentist and non-dentist professionals, of the health care team.</p>	<p>A data show projector is used for direct lectures</p> <p>Microsoft power point for lecture presentations</p> <p>Live demonstrations</p> <p>Preclinical and clinical training with direct supervision</p> <p>Group Seminars , group meeting, instructions and Discussion</p> <p>Graduation Research</p>	<p>Participation & Activity</p> <p>Quizzes</p> <p>Written Examinations</p> <p>Mid Exam</p> <p>Practical/clinical Assessments and</p> <p>Practical/clinical Examinations</p> <p>Final Examination: Theory 40% and Practical or clinical 20%</p> <p>Committee discussion of seminars and graduation research</p>
2	1	Patient Evaluation , Diagnosis & Treatment Planning			
3	1	Caries Management (Diagnosis & treatment strategies)			
4	1	Sterilization and Infection Control			
5	1	Cervical Lesions(carious and non carious lesions)			
6	1	Restorative Dentistry and Pulpal Health, Irritation, types of irritants, immediate reaction to the pulp and the long term effects and Inflammatory conditions of the pulp, clinical manifestations (acute pulpitis, chronic pulpitis, degenerative changes and necrosis of pulp tissue.			
7	1	Management of Deep Seated Caries, Pulp exposure, traumatic exposure and treatment, Pathological exposures and treatment,			
8	1	Capping agents and healing process of the pulp following trauma			
9	1	Aesthetic Restorative Dentistry Principles of aesthetic dentistry, smile design and golden proportions.			
10	1	Shade estimation , Colour, the dimensions (Hue, Chroma,and Value).			
		- Current Ceramic Materials. (Choices			

		and Properties).			
11	1	Occlusion and Aesthetics -Principles of occlusion -Anterior guidance. -occlusal plane			
12	1	Direct Aesthetic adhesive Restorations . - Mastering layering and finishing of Anterior Composite Restorations. - Direct Veneers for anterior teeth. Posterior direct Composite Restorations (clinical indications, cavity preparation) - Simplified use of matrix in class II Simplified anatomical modeling.			
13	1				
14	1	Indirect aesthetic adhesive restorations. -Ceramic Veneers -Bur selection, preparation -Impression			

		technique -Cementation Indirect aesthetic adhesive restorations Inlays and Onlays (materials ,techniques) CAD/CAM Technology.			
15	1	Dental Laser, Application of Laser in Conservative Dentistry.			

11. Course Evaluation

Quizzes Written Examinations=5%

Mid Exam=20%

Practical/clinical Assessments and Practical/clinical Examinations=15%

Final Examination: Theory 40% and Practical or clinical 20%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Summitt's Fundamentals of Operative Dentistry
Main references (sources)	Sturdevant's Art and Science of Operative Dentistry
Recommended books and references (scientific journals, reports...)	Operative Dentistry Journal
Electronic References, Websites	Lectures are available on university official website and lecturer youtube channel
The development of the curriculum plan	<ol style="list-style-type: none"> 1. Continuous update of scientific Programs to follow global development of latest clinical procedures and materials 2. Continuous medical education programs for college graduates and members as well as other formal institutes in the region 3. Use of newest technologies for student training and improvement of their practice and knowledge.

Course Description Form

1. Course Name:					
Pre-clinical Endodontics					
2. Course Code:					
BDEN001066 2					
3. Semester / Year:					
Fourth year/ 2nd. semester					
4. Description Preparation Date:					
8 / 3 / 2026					
5. Available Attendance Forms:					
In Office Hands on course					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theory:1 Practical:3/ units: 2.5					
7. Course administrator's name (mention all, if more than one name)					
Name: 1- Lect. Hasan Mohsin Al-Rammahi dent.hasan.mohsin@uobabylon.edu.iq 2- Lect. Sinan Abdul-Sattar Shwailiya dent.sinan.a.shwailiya@uobabylon.edu.iq					
8. Course Objectives					
<p>A.Cognitive goals: To enable students to gain Medical and dental Knowledge of:</p> <p>A1. Basic Knowledge about the preclinical endodontics root canal filling materials and techniques</p> <p>A2. Clinical training for the skills of the above treatments.</p> <p>A3. Clinical training for the skills of the above treatments.</p> <p>A4. the impact of social factors on oral health and disease.</p> <p>A5. the basic scientific and ethical principles of clinical research.</p>			<p>B. The skills goals special to the programme .</p> <p>B1. To enable students to apply scientific methods to the practice of dentistry for the identification of problems, data collection, hypothesis formulation, and the application of deductive reasoning to problem solving, clinical reasoning, and decision-making.</p> <p>B2. To successfully integrate collected clinical information to carry out appropriate diagnostic and treatment plans for patients across the broad spectrum of acute and chronic conditions.</p> <p>B3. To perform basic risk assessments and formulate plans to promote patient wellbeing.</p>		
9. Teaching and Learning Strategies					
Strategy		<ul style="list-style-type: none"> A data show projector is used for direct lectures Microsoft power point for lecture presentations Live demonstrations Preclinical and clinical training with direct supervision Group Seminars , group meeting, instructions and Discussion <p style="text-align: center;">Graduation Research</p>			
10. Course Structure					
Week	Hours	Unit or subject name	Required Learning Outcomes	Learning method	Evaluation method

1	1	Pulp histology & root canal configuration. Basic phases of treatment.	<p>Affective and value goals</p> <p>1. To affectively counsel and educate patients and their families.</p> <p>2. To design diagnostic and treatment options in a manner that will help the participation of patients and their families in shared decision-making.</p> <p>3. To effectively communicate with members, including both dentist and non-dentist professionals, of the health care team.</p>	<p>A data show projector is used for direct lectures</p> <p>Microsoft power point for lecture presentations</p> <p>Live demonstrations</p> <p>Preclinical and clinical training with direct supervision</p> <p>Group Seminars , group meeting, instructions and Discussion</p> <p>Graduation Research</p>	<p>Participation & Activity</p> <p>Quizzes</p> <p>Written Examinations</p> <p>Mid Exam</p> <p>Practical/clinical Assessments and Practical/clinical Examinations</p> <p>Final Examination: Theory 40% and Practical or clinical 20%</p> <p>Committee discussion of seminars and graduation research</p>
2	1	Objective of endodontic treatment			
3	1	Basic Phases of Treatment			
4	1	Pulp pathologies			
5	1	Pulp pathologies			
6	1	Classification of periapical diseases			
7	1	Classification of periapical diseases			
8	1	Intracanal instruments			
9	1	Access Opening Preparation			
10	1	Access Opening Preparation			
11	1	Mid-Exam			
12	1	Endodontic Instruments			
13	1	Roentgenography in Endodontics and Root canal preparation			
14	1	Irrigation + Intracanal Medication			
15	1	Obturation of Root Canal Space			

11. Course Evaluation

Quizzes Written Examinations=5%

Mid Exam=20%

Practical/clinical Assessments and Practical/clinical Examinations=15%

Final Examination: Theory 40% and Practical or clinical 20%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Ingle's Endodontics
Main references (sources)	Cohen's pathways of the pulp
Recommended books and references (scientific journals, reports...)	Journal of Endodontics
Electronic References, Websites	Lectures are available on university official website and lecturer youtube channel
The development of the curriculum plan	1. Continuous update of scientific Programs to follow global development of latest

	<p>clinical procedures and materials</p> <ol style="list-style-type: none">2. Continuous medical education programs for college graduates and members as well as other formal institutes in the region3. Use of newest technologies for student training and improvement of their practice and knowledge.
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Course Description Template

Course Title:

General Surgery

Course Code:

BDEN001058 1

Semester / Academic Year:

First Semester, Academic Year 2025–2026

Date of Description Preparation:

8/ 3/ 2026

Available Attendance Modes:

Student attendance in lectures (both online and in-person), as well as participation in seminars throughout the academic year.

Total Study Hours / Units:

120 practical hours and 30 theoretical hours

Course Coordinator (If more than one, list all names):

Name: Dr. Khalid Nawaf Dhahi

Course Objectives

- Introduce students to diseases and conditions affecting the human body, including diagnostic and therapeutic approaches.
- Instructional Component: Delivering lectures, conducting academic seminars, and participating in morning clinical rounds to train students in clinical practice.
- Therapeutic and Preventive Component: Focus on studying various health conditions, including metabolic processes, blood disorders, respiratory and immune system diseases, traumatic injuries, and patient care—covering preoperative diagnosis, management, and postoperative care.

Learning Objectives

- Understand the fundamentals of diagnosing various diseases and formulating treatment plans for each case.
- Acquire in-depth knowledge in managing blood disorders, embolisms, and trauma cases.
- Learn diagnostic methods for general medical conditions.
- Understand the etiology of diseases and therapeutic approaches.
- Gain the skills necessary for pre- and post-operative patient care.

- Understand methods for fluid replacement and prevention of fluid loss.

Teaching and Learning Strategies

Strategy:

- Data show projectors
- LCD displays
- Electronic screens
- Smart boards
- Live streaming using digital cameras

Course Structure

Week	Hours	Intended Learning Outcomes	Unit or Topic Title	Teaching Method	Evaluation Method
1	1	General Surgery	Metabolic response methodology	Lecture using PowerPoint	Practical, short, midterm, and final exams
2	1	General Surgery	Metabolic response mechanisms	Lecture using PowerPoint	Practical, short, midterm, and final exams
3	1	General Surgery	Wound healing types	Lecture using PowerPoint	Practical, short, midterm, and final exams
4	1	General Surgery	Wound healing management	Lecture using PowerPoint	Practical, short, midterm, and final exams
5	1	General Surgery	Wound infection	Lecture using PowerPoint	Practical, short, midterm, and final

						exams
6	1	General Surgery	Wound infection	Lecture using PowerPoint	Practical, short, midterm, and final exams	
7	1	General Surgery	Hemorrhage types	Lecture using PowerPoint	Short, midterm, and final exams	
8	1	General Surgery	Hemorrhage management	Lecture using PowerPoint	Short, midterm, and final exams	
9	1	General Surgery	Shock causes	Lecture using PowerPoint	Short, midterm, and final exams	
10	1	General Surgery	Shock treatment	Lecture using PowerPoint	Short, midterm, and final exams	
11	1	General Surgery	Parenteral nutrition	Lecture using PowerPoint	Short, midterm, and final exams	
12	1	General Surgery	Parenteral nutrition	Lecture using PowerPoint	Short, midterm, and final exams	
13	1	General Surgery	Blood transfusion	Lecture using PowerPoint	Short, midterm, and final exams	
14	1	General Surgery	Blood transfusion	Lecture using	Short, midterm, and final	

15	1	General Surgery	Patient follow-up protocol	Lecture using PowerPoint	PowerPoint exams Short, midterm, and final exams
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Course Assessment

No.	Assessment	Weight	Distribution
1	Midterm (First Course)	40%	20% Practical, 20% Theoretical
2	End of Course (First Course)	60%	40% Theoretical, 20% Practical

Total: 100%

Learning and Teaching Resources

Prescribed Textbooks (if any): Bayle and Love Textbook

Main References (Sources):

Recommended Supporting References (Scientific Journals, Reports, etc.):

Electronic References, Internet Resources:

Course Description Template

Course Title:

General Surgery

Course Code:

BDEN001067 2

Semester / Academic Year:

Second Semester, Academic Year 2025–2026

Date of Description Preparation:

8/3/ 2026

Available Attendance Modes:

Student attendance in lectures (both online and in-person), as well as participation in seminars throughout the academic year.

Total Study Hours / Units:

60 practical hours and 15 theoretical hours

Course Coordinator:

Name: Dr. Khalid Nawaf Dhahi

Course Objectives

- Introduce students to diseases and conditions affecting the human body, including diagnostic and therapeutic approaches.
- Instructional Component: Delivering lectures, conducting academic seminars, and participating in morning clinical rounds to train students in clinical practice.
- Therapeutic and Preventive Component: Focus on studying various health conditions, including metabolic processes, blood disorders, respiratory and immune system diseases, traumatic injuries, and patient care—covering preoperative diagnosis, management, and postoperative care.

Learning Objectives

- Understand the fundamentals of diagnosing various diseases and formulating treatment plans for each case.
- Acquire in-depth knowledge in managing blood disorders, embolisms, and trauma cases.
- Learn diagnostic methods for general medical conditions.
- Understand the etiology of diseases and therapeutic approaches.
- Gain the skills necessary for pre- and post-operative patient care.

- Understand methods for fluid replacement and prevention of fluid loss.

Teaching and Learning Strategies

Strategy:

- Data show projectors
- LCD displays
- Electronic screens
- Smart boards
- Live streaming using digital cameras

Course Structure

Week	Hours	Intended Learning Outcomes	Unit or Topic Title	Teaching Method	Evaluation Method
1	1	General Surgery	Fluid balance	Lecture using PowerPoint	Short, midterm, and final exams
2	1	General Surgery	Fluid balance	Lecture using PowerPoint	Short, midterm, and final exams
3	1	General Surgery	Electrolyte balance (sodium)	Lecture using PowerPoint	Short, midterm, and final exams
4	1	General Surgery	Electrolyte balance (potassium)	Lecture using PowerPoint	Short, midterm, and final exams
5	1	General Surgery	Emergency (ABCDE)	Lecture using PowerPoint	Short, midterm, and final exams
6	1	General Surgery	Head injury (GCS)	Lecture using PowerPoint	Short, midterm, and final exams

7	1	General Surgery	History taking	Lecture using PowerPoint	Short, midterm, and final exams
8	1	General Surgery	Anesthesia	Lecture using PowerPoint	Short, midterm, and final exams
9	1	General Surgery	Pain causes	Lecture using PowerPoint	Short, midterm, and final exams
10	1	General Surgery	Pain management	Lecture using PowerPoint	Short, midterm, and final exams
11	1	General Surgery	Pre-operative management	Lecture using PowerPoint	Short, midterm, and final exams
12	1	General Surgery	Intra-operative management	Lecture using PowerPoint	Short, midterm, and final exams
13	1	General Surgery	Post-operative complication and management	Lecture using PowerPoint	Short, midterm, and final exams
14	1	General Surgery	Precaution and safety requirement	Lecture using PowerPoint	Short, midterm, and final exams
15	1	General Surgery	Precaution and safety requirement	Lecture using PowerPoint	Short, midterm, and final exams

Course Assessment

No.	Assessment	Weight	Distribution
1	Midterm (Second Course)	40%	20% Practical, 20% Theoretical
2	End of Course (Second Course)	60%	40% Theoretical, 20% Practical

Total: 100%

Learning and Teaching Resources

Prescribed Textbooks (if any): Bayle and Love Textbook

Main References (Sources):

Recommended Supporting References (Scientific Journals, Reports, etc.):

Electronic References, Internet Resources:

Course Description Form

1. Course Name: general medicine
2. Course Code: BDEN001059 1
3. Semester / Year: Semester
4. Description Preparation Date: 2026/3/8
5. Available Attendance Forms: weekly
6. Number of Credit Hours (Total) / Number of Units (Total): 3 hour weekly
7. Course administrator's name (mention all, if more than one name)
Lecturer ammar eesa mahdi Email: ammarn729@gmail.com
8. Course Objectives
Course Objectives Objectives of the study subject 1. Upon completion of the medicine course, the student will be able to: 1- Learn about all the basic concepts of medicine 2- The student learns about the changes that accompany diseases in cell shape and functions 3- The student distinguishes between different types of diseases (genetic – inflammatory – tumors) 4- The student learns about the medicine causes and how the disease develops from the onset of infection until symptoms appear 5- Learn about scientific theories related to the emergence of different types of tumors. 6- The student distinguishes between the different types of carcinogenic substances, the way they work, and the necessary ways to avoid them

<p>7- The student is introduced to the important and common diseases of the respiratory system, such as asthma, tuberculosis, diseases resulting from industrial pollutants, as well as tumors and others.</p> <p>8- The student learns about diseases of the heart and blood vessels, the types of angina pectoris, heart attack, and rheumatic heart disease, as well as changes in the blood vessels that accompany cases of high blood pressure and diabetes, and identifies the various tumors that affect the blood vessels.</p> <p>9- The student learns about the various diseases of the esophagus, including infections and tumors</p> <p>10- The student learns about diseases of the stomach, including ulcers of all kinds and various infections, as well as the various tumors that may affect this organ.</p> <p>11- Distinguish between the different types of diseases of the small and large intestine, whether congenital or acquired.</p> <p>12- Distinguish between the types of lymph node diseases and identify the most important types of tumors that affect these glands.</p> <p>13- Identify viral diseases and tumors that affect the liver</p> <p>14-- Learn about the diagnostic methods used in laboratories for the purpose of diagnosing inflammatory diseases and tumors.</p> <p>15- Learn how to prepare glass slides for routine examination.</p> <p>•</p>

9. Teaching and Learning Strategies

Strategy	<p>1- Method of giving lectures.</p> <p>2- Laboratory applications in basic science laboratories.</p> <p>3- Scientific applications in educational clinics for specialized dental diseases</p> <p>4- Seminars</p>
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
<i>General conc of medicine</i>	<i>According to the weekly schedule</i>	The student distinguishes between the general concepts in	medicine	Theoretical lectu and educational laboratories	Theoretical practical exams and

		medicine as well as the general characteristics of diseases			seminars, as well as feedback from students and the learning triangle
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11. Course Evaluation

	The grade distribution for the first course is 40 points, divided into 20 theoretical points and 20 practical points. The final exam for the first course is 60 points, divided into 40 final theoretical points and 20 final practical points.		
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12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Davidson's Principles and Practice of Medicine
Main references (sources)	macleod's clinical examination
Recommended books and references (scientific journals, reports...)	oxford handbook of clinical medicine
Electronic References, Websites	

Course Description Form

1. Course Name: general medicine
2. Course Code: BDEN001068 2
3. Semester / Year: Semester
4. Description Preparation Date: 2026/3/8
5. Available Attendance Forms: weekly
6. Number of Credit Hours (Total) / Number of Units (Total): 3 hour weekly
7. Course administrator's name (mention all, if more than one name)
Lecturer ammar eesa mahdi Email: ammarn729@gmail.com
8. Course Objectives
Course Objectives Objectives of the study subject 1. Upon completion of the medicine course, the student will be able to: 1- Learn about all the basic concepts of medicine 2- The student learns about the changes that accompany diseases in cell shape and functions 3- The student distinguishes between different types of diseases (genetic – inflammatory – tumors) 4- The student learns about the medicine causes and how the disease develops from the onset of infection until symptoms appear 5- Learn about scientific theories related to the emergence of different types of tumors. 6- The student distinguishes between the different types of carcinogenic substances, the way they work, and the necessary ways to avoid them 7- The student is introduced to the important and common diseases of the respiratory system, such as asthma, tuberculosis, diseases resulting from industrial pollutants, as well as tumors and others.

- 8- The student learns about diseases of the heart and blood vessels, the types of angina pectoris, heart attack, and rheumatic heart disease, as well as changes in the blood vessels that accompany cases of high blood pressure and diabetes, and identifies the various tumors that affect the blood vessels.
- 9- The student learns about the various diseases of the esophagus, including infections and tumors
- 10- The student learns about diseases of the stomach, including ulcers of all kinds and various infections, as well as the various tumors that may affect this organ.
- 11- Distinguish between the different types of diseases of the small and large intestine, whether congenital or acquired.
- 12- Distinguish between the types of lymph node diseases and identify the most important types of tumors that affect these glands.
- 13- Identify viral diseases and tumors that affect the liver
- 14-- Learn about the diagnostic methods used in laboratories for the purpose of diagnosing inflammatory diseases and tumors.
- 15- Learn how to prepare glass slides for routine examination.
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> 1- Method of giving lectures. 2- Laboratory applications in basic science laboratories. 3- Scientific applications in educational clinics for specialized dental diseases 4- Seminars
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
General concepts in medicine	According to the weekly schedule	The student Distinguishes between the general concepts in medicine as well as the general characteristics of diseases	medicine	Theoretical lectures educational laboratories	Theoretical and practical exams and seminars, as well as feedback from students and the learning triangle

11. Course Evaluation

The grade distribution for the first course is 40 points, divided into 20 theoretical points and 20 practical points. The final exam for the first course is 60 points, divided into 40 final theoretical points and 20 final practical points.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Davidson's Principles and Practice of Medicine
Main references (sources)	macleod's clinical examination
Recommended books and references (scientific journals, reports...)	oxford handbook of clinical medicine
Electronic References, Websites	

Course Description of orthodontics (fourth stage)

1. Course Name:
Orthodontics
2. Course Code:
1 st Semester: BDEN001060 1. 2 nd Semester: BDEN001069 2
3. Semester / Year: Semester
2025–2026/ 1 st and 2 nd Semesters
4. Description Preparation Date:
8–3–2026
8–3–2026
5. Available Attendance Forms:
Theoretical lectures and educational clinics
6. Number of Credit Hours (Total) / Number of Units (Total):
45/ 2
7. Course administrator's name (mention all, if more than one name)
Email: omaimalateef@uobabylon.edu.iq
Name : Lect. Basam Ali Hussien
den783.bsam.ali@ uobabylon.edu.iq
Name: Assist. Lect. Akeel muslim
Email: den426.akeel.muslum@uobabylon.edu.iq
8. Course Objectives

<p>Course Objectives</p>	<ul style="list-style-type: none"> • ... The course program qualifies the student to acquire scientific knowledge in the basics of orthodontics, learn about the types, causes and definitions of malocclusion and what are the main and special factors that lead to malocclusion, • study embryology, growth and development to determine the normal growth of the face and jaws and know the factors that lead to the emergence of congenital malformations, • study the most important orthodontic devices used and know their components and see their advantages and disadvantages and how to deal with them. <p>The skills goals special to the programme.</p> <ul style="list-style-type: none"> - Learn how to make a removable orthodontic device with its different parts • - Learn how to diagnose different malocclusions
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9. Teaching and Learning Strategies

<p>Strategy</p>	<ol style="list-style-type: none"> 1-The method of lectures (Microsoft power point)). 2-The method of e-learning by uploading the lectures on the college website for the lectures of the teachers in the college. 3. Practical training for students in educational labs. 4. Using the Babylon University platform (Moodle) to raise lectures and take exams. 5. LCD screen, Electronic boards, Smart boards, Live streaming through digital cameras
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10. Course Structure

1st course

Week	Hours	Required Learning Outcomes	Unit/ or subject name	Learning Method	Evaluation Method
1	1	Introduction of orthodontics	Introduction of orthodontics	theoretical lecture	Short, semester & final exams
2	1	Orthodontics terms	Orthodontics terms	theoretical lecture	Short, semester & final exams
3	1	Orthodontics terms	Orthodontics terms	theoretical lecture	Short, semester & final exams
4	1	Tooth movement	Tooth movement	theoretical lecture	Short, semester & final exams
5	1	Tooth movement	Tooth movement	theoretical lecture	Short, semester & final exams
6	1	Tooth movement	Tooth movement	theoretical lecture	Short, semester & final exams
7	1	Tooth movement	Tooth movement	theoretical lecture	Short, semester & final exams
8	1	Removable app.	Removable app.	theoretical lecture	Short, semester & final exams
9	1	Removable app.	Removable app.	theoretical lecture	Short, semester & final exams
10	1	Removable app.	Removable app.	theoretical lecture	Short, semester & final exams
11	1	Etiology of malocclusion	Etiology of malocclusion	theoretical lecture	Short, semester & final exams
12	1	Etiology of malocclusion	Etiology of malocclusion	theoretical lecture	Short, semester & final exams
13	1	Etiology of malocclusion	Etiology of malocclusion	theoretical lecture	Short, semester & final exams
14	1	Etiology of malocclusion	Etiology of malocclusion	theoretical lecture	Short, semester & final exams
15	1	Etiology of	Etiology of	theoretical lecture	Short, semester &

		malocclusion	malocclusion		final exams

2nd course

Week	Hours	Required Learning Outcomes	Unit/ subject Title	Learning Method	Evaluation Method
1	1	Growth and development	Growth and development	theoretical lecture	Short, semester & final exams
2	1	Growth and development	Growth and development	theoretical lecture	Short, semester & final exams
3	1	Growth and development	Growth and development	theoretical lecture	Short, semester & final exams
4	1	Growth and development	Growth and development	theoretical lecture	Short, semester & final exams
5	1	Growth and development	Growth and development	theoretical lecture	Short, semester & final exams
6	1	Growth and development	Growth and development	theoretical lecture	Short, semester & final exams
7	1	Development of teeth and occlusion	Development of teeth and occlusion	theoretical lecture	Short, semester & final exams
8	1	Development of teeth and occlusion	Development of teeth and occlusion	theoretical lecture	Short, semester & final exams
9	1	Development of teeth and occlusion	Development of teeth and occlusion	theoretical lecture	Short, semester & final exams
10	1	Myofunctional appliances	Myofunctional appliances	theoretical lecture	Short, semester & final exams
11	1	Myofunctional	Myofunctional	theoretical lecture	Short, semester & final exams

		appliances	appliances		
12	1	Anchorage: definition, indications, and types	Anchorage: definition, indications, and types	theoretical lecture	Short, semester & final exams
13	1	Fixed appliances	Fixed appliances	theoretical lecture	Short, semester & final exams
14	1	Fixed appliances	Fixed appliances	theoretical lecture	Short, semester & final exams
15	1	Retention and retainers	Retention and retainers	theoretical lecture	Short, semester & 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

Number	Assessment Measurement		Score Distribution
1	First semester mid exam	40 %	20% Clinical requirement 20% Written exam
2	First semester final exam	60 %	40% Written exam 20% Practical exam
Total		100 %	
Number	Assessment Measurement		Score Distribution
1	Second semester mid exam	40 %	20% Clinical requirement 20% Written exam
2	Second semester final exam	60 %	40% Written exam 20% Practical exam
Total		100 %	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary Orthodontics, William R. Proffit. Sixth edition
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	Textbook of Orthodontics Singh 2017
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

13. Program Development Plan

- Negotiation and Persuasion: The student should be able to influence others, persuade them, discuss them and reach an agreement.
- Leadership: The student should be able to lead, motivate and direct others.

Independence at work: The student should be able to assume responsibility and independence by working under various circumstances

Course Description Pediatric Dentistry /4th stage

1. Course Name:	
Pediatric Dentistry	
2. Course Code:	
BDEN001061 1	
3. Semester / Year:	
1 st Semesters/ fourth stage /2025–2026	
4. Description Preparation Date:	
8–3–2026	
5. Available Attendance Forms:	
Theoretical lectures	
6. Number of Credit Hours (Total) / Number of Units (Total):	
15/1	
7. Course administrator's name (mention all, if more than one name)	
Name: lect. Israa hussien Ali Emil: dent.israa.ali@uobabylon.edu.iq Name : Lect. Sarah yousif abass Emil: : sarah.abbas@uobabylon.edu.com Name: Lec. Mukaled Luay Ali mukhaled885@gmail.com	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • .Understand and assimilate the theoretical and practical methods of treating all cases of injury to children's teeth and identify the scientific methods and methods supported by the means of illustration to know how to identify primary and permanent teeth and the problems related to them <p>The skills goals special to the programme.</p> <ol style="list-style-type: none"> 1. Training students on pediatric dental conditions 2. Giving instructions on how to deal and interact with children <ul style="list-style-type: none"> • 3. Acquisition of skills for diagnosing primary and permanent teeth in children
9. Teaching and Learning Strategies	
Strategy	<ol style="list-style-type: none"> 1-The method of lectures (Microsoft power point)). 2-The method of e-learning by uploading the lectures on the college website for the lectures of the teachers in the college.. 4. Using the Babylon University platform to raise lectures and take exams. 5. LCD screen, Electronic boards, Smart boards, Live streaming through digital cameras

10.Course Structure

1st course

Week	Hours	Required Learning Outcomes	Unit/ subject Title	Learning Method	Evaluation Method
1	1	Eruption of teeth	Eruption of teeth	theoretical lecture	Short, semester & final exams
2	1	Eruption of teeth	Eruption of teeth	theoretical lecture	Short, semester & final exams
3	1	Eruption of teeth	Eruption of teeth	theoretical lecture	Short, semester & final exams
4	1	Eruption of teeth	Eruption of teeth	theoretical lecture	Short, semester & final exams
5	1	Morphology of the primary teeth	Morphology of the primary teeth	theoretical lecture	Short, semester & final exams
6	1	Morphology of the primary teeth	Morphology of the primary teeth	theoretical lecture	Short, semester & final exams
7	1	Morphology of the primary teeth	Morphology of the primary teeth	theoretical lecture	Short, semester & final exams
8	1	Dental caries	Dental caries	theoretical lecture	Short, semester & final exams
9	1	Dental caries	Dental caries	theoretical lecture	Short, semester & final exams
10	1	Dental caries	Dental caries	theoretical lecture	Short, semester & final exams
11	1	Restorative dentistry for children	Restorative dentistry for children	theoretical lecture	Short, semester & final exams
12	1	Restorative dentistry for children	Restorative dentistry for children	theoretical lecture	Short, semester & final exams
13	1	Restorative dentistry for children	Restorative dentistry for children	theoretical lecture	Short, semester & final exams
14	1	Restorative dentistry for children	Restorative dentistry for children	theoretical lecture	Short, semester & final exams
15	1	Restorative dentistry for children	Restorative dentistry for children	theoretical lecture	Short, semester & 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

Number	Assessment Measurement	Score	Score Distribution
1	First semester mid exam	30 %	30% Written exam
2	First semester final exam	70 %	70% Written exam
Total		100 %	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<p>McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier</p> <p>2. Pediatric Dentistry Damile 3rd ed. 2009</p> <p>3. Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delh</p> <p>4. Hand book of pediatric dentistry (Cameron) mosby/third edition/2008</p> <p>5. Principles and practice of pedodontics /Arathi Rao Jaypee/second edition2008</p> <p>6. Paediatric Dentistry/ Richard Welbu Fourth edition Oxford University Press, 2012</p>
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

13. Program Development Plan

- Negotiation and Persuasion: The student should be able to influence others, persuade them, discuss them and reach an agreement.
- Leadership: The student should be able to lead, motivate and direct others.

Independence at work: The student should be able to assume responsibility and independence by working under various circumstances

Course Description Pediatric Dentistry /4th stage

1. Course Name:	
Pediatric Dentistry	
2. Course Code:	
BDEN001070 2	
3. Semester / Year:	
2 nd Semesters/ fourth stage /2025–2026	
4. Description Preparation Date:	
8-3-2026	
5. Available Attendance Forms:	
Theoretical lectures	
6. Number of Credit Hours (Total) / Number of Units (Total):	
15/1	
7. Course administrator's name (mention all, if more than one name)	
Name: lect. Israa hussien Ali Emil: dent.israa.ali@uobabylon.edu.iq Name : Lect. Sarah yousif abass Emil: : sarah.abbas@uobabylon.edu.com Name: Mukaled Luay Ali	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • .Understand and assimilate the theoretical and practical methods of treating all cases of injury to children's teeth and identify the scientific methods and methods supported by the means of illustration to know how to identify primary and permanent teeth and the problems related to them <p>The skills goals special to the programme.</p> <ol style="list-style-type: none"> 1. Training students on pediatric dental conditions 2. Giving instructions on how to deal and interact with children <ul style="list-style-type: none"> • 3. Acquisition of skills for diagnosing primary and permanent teeth in children
9. Teaching and Learning Strategies	
Strategy	<ol style="list-style-type: none"> 1-The method of lectures (Microsoft power point)). 2-The method of e-learning by uploading the lectures on the college website for the lectures of the teachers in the college.. 4. Using the Babylon University platform to raise lectures and take exams. 5. LCD screen, Electronic boards, Smart boards, Live streaming through digital cameras

10.Course Structure

2nd course

Week	Hours		Unit/ subject Title	Learning Method	Evaluation Method
1	1	Treatment of deep caries	Treatment of deep caries	theoretical lecture	Short, semester & final exams
2	1	Indirect pulp treatment	Indirect pulp treatment	theoretical lecture	Short, semester & final exams
3	1	Vital pulp therapy pulpotomy	Vital pulp therapy pulpotomy	theoretical lecture	Short, semester & final exams
4	1	Non vital pulp therapy technique	Non vital pulp therapy technique	theoretical lecture	Short, semester & final exams
5	1	Reaction of pulp to various capping material	Reaction of pulp to various capping material	theoretical lecture	Short, semester & final exams
6	1	Local anesthesia and pain control for children	Local anesthesia and pain control for children	theoretical lecture	Short, semester & final exams
7	1	Local anesthesia and pain control for children	Local anesthesia and pain control for children	theoretical lecture	Short, semester & final exams
8	1	Local anesthesia and pain control for children	Local anesthesia and pain control for children	theoretical lecture	Short, semester & final exams
9	1	Local anesthesia and pain control for children	Local anesthesia and pain control for children	theoretical lecture	Short, semester & final exams
10	1	Local anesthesia and pain control for children	Local anesthesia and pain control for children	theoretical lecture	Short, semester & final exams
11	1	Oral surgery for children	Oral surgery for children	theoretical lecture	Short, semester & final exams
12	1	Oral surgery for children	Oral surgery for children	theoretical lecture	Short, semester & final exams
13	1	Oral surgery for children	Oral surgery for children	theoretical lecture	Short, semester & final exams
14	1	Oral surgery for children	Oral surgery for children	theoretical lecture	Short, semester & final exams

15	1	Oral surgery for children	Oral surgery for children	theoretical lecture	Short, semester & final exams
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11. Course Evaluation

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

Number	Assessment Measurement	Score	Score Distribution
1	Second semester mid exam	30 %	30% Written exam
2	second semester final exam	70 %	70% Written exam
Total		100 %	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<p>McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier</p> <p>2. Pediatric Dentistry Damile 3rd ed. 2009</p> <p>3. Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delh</p> <p>4. Hand book of pediatric dentistry (Cameron) mosby/third edition/2008</p> <p>5. Principles and practice of pedodontics /Arathi Rao Jaypee/second edition2008</p> <p>6. Paediatric Dentistry/ Richard Welbu Fourth edition Oxford University Press, 2012</p>
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

13. Program Development Plan

- Negotiation and Persuasion: The student should be able to influence others, persuade them, discuss them and reach an agreement.
- Leadership: The student should be able to lead, motivate and direct others.

Independence at work: The student should be able to assume responsibility and independence by working under various circumstances

Course Description Form

1. Course Name:	
Periodontics	
2. Course Code:	
BDEN001071 1	
3. Semester / Year:	
2025–2026/ 1 st and 2 nd Semesters	
4. Description Preparation Date:	
8–03–2026	
5. Available Attendance Forms:	
The student's attendance at lectures, clinics, and seminars is mandatory throughout academic year.	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theory: 30 Clinical: 120	
7. Course administrator's name (mention all, if more than one name)	
Name: Sarah Anwer Mohammad Ali Email: den254.sarah.anur@uobabylon.edu.iq Name: Fatima Malik Abood Email: dent.fatima.malik@uobabylon.edu.iq Name: Zeyad Nazar Majeed Email: dent.zeyad.nazar@uobabylon.edu.iq Email: Doaa Nemea doaanemah@uobabylon.edu.iq Name: Sura Dakhil Jasim. Email: dent.sura.dakhil@uobabylon.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Understanding Periodontal Diseases: Gain a comprehensive understanding of periodontal anatomy, physiology, etiology, and pathogenesis to diagnose and manage periodontal diseases effectively. Treatment Planning and Management: Develop skills in treatment planning for various stages of periodontal diseases, including non–surgical and surgical therapies, and provide personalized patient education for optimal oral health.

- **Interdisciplinary Collaboration and Professionalism:** Understand the importance of interdisciplinary collaboration with other dental specialists and healthcare providers, adhere to ethical principles in patient care, and demonstrate professionalism in communication and collaboration

9. Teaching and Learning Strategies

Strategy	<p>Using various modern devices and equipment to deliver material to students as needed, including:</p> <p>Data show projector LCD screens Electronic boards Smart boards Live streaming through digital cameras</p>
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10. First Semester Structure

Week	Hours	Unit or subject name	Required Learning Outcomes	Learning method	Evaluation method
1	1	Periodontics	Diagnosis and classification of periodontal diseases	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
2	1	Periodontics	Diagnosis and classification of periodontal diseases	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
3	1	Periodontics	Tooth mobility	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
4	1	Periodontics	Management of	theoretical lecture using	Short quizzes, mid-term exams, end-of-semester assessments, and final

			medically compromised patients	PowerPoint software.	exams
5	1	Periodontics	Management of medically compromised patients	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
6	1	Periodontics	Periodontal pockets	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
7	1	Periodontics	Halitosis	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
8	1	Periodontics	Furcation involvement	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
9	1	Periodontics	Furcation involvement	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
10	1	Periodontics	Periodontics and other aspects of dentistry	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
11	1	Periodontics	Dentin hypersensitivity	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
12	1	Periodontics	Assessment of periodontal surgeries	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
13	1	Periodontics	Assessment of periodontal surgeries	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
14	1	Periodontics	Assessment of periodontal surgeries	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

15	1	Periodontics	Gingival crevicular fluid	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
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11. Course Evaluation

Number	Assessment Measurement	Score distribution
1	First -semester mid exam	40 % 20% Clinical requirement 20% Written exam
2	First- semester final exam	60% 40% Written exam 20% Practical exam
Total		100 %

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<p>Clinical Periodontology Carrnza's book -1 ELSEVIER Edition14 Year 2019</p> <p>Lindh book Clinical Periodontology and -2 Implant Dentistry :WILEY Blackwell Edition :6 Year :2015</p>
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Curriculum Development Plan	<ul style="list-style-type: none"> • Incorporating the latest research and modern techniques in periodontal disease treatment to enhance students' advanced knowledge. • Increasing clinical training hours, using simulations, and organizing workshops to develop surgical and therapeutic skills. • Adopting interactive learning approaches such as problem-based learning (PBL) and utilizing digital resources and modern technologies. • Implementing a comprehensive evaluation system that includes written exams, continuous clinical assessment, and case analysis to ensure student competency. • Integrating community awareness programs, involving students in health campaigns, and organizing field visits to promote oral and periodontal health.

Course Description Form

1. Course Name:	
Periodontics	
2. Course Code:	
BDEN001079 2	
3. Semester / Year:	
2025–2026/ 1 st and 2 nd Semesters	
4. Description Preparation Date:	
8–03–2026	
5. Available Attendance Forms:	
The student's attendance at lectures, clinics, and seminars is mandatory throughout academic year.	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theory: 30 Clinical: 120	
7. Course administrator's name (mention all, if more than one name)	
Name: Sarah Anwer Mohammad Ali Email: den254.sarah.anur@uobabylon.edu.iq Name: Fatima Malik Abood Email: dent.fatima.malik@uobabylon.edu.iq Name: Zeyad Nazar Majeed Email: dent.zeyad.nazar@uobabylon.edu.iq Email: Doaa Nemea doaanemah@uobabylon.edu.iq Name: Sura Dakhil Jasim. Email: dent.sura.dakhil@uobabylon.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Understanding Periodontal Diseases: Gain a comprehensive understanding of periodontal anatomy, physiology, etiology, and pathogenesis to diagnose and manage periodontal diseases effectively. <li style="padding-left: 20px;">Treatment Planning and Management: Develop skills in treatment planning for various stages of periodontal diseases, including non-surgical and surgical therapies, and provide personalized patient education for optimal oral health. • Interdisciplinary Collaboration and Professionalism: Understand the importance of interdisciplinary collaboration with other dental specialists and healthcare providers, adhere to ethical principles in patient care, and demonstrate professionalism in communication and collaboration

9. Teaching and Learning Strategies

Strategy	<p>Using various modern devices and equipment to deliver material to students as needed, including:</p> <p>Data show projector LCD screens Electronic boards Smart boards Live streaming through digital cameras</p>
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10. Second Semester Structure

Week	Hours	Unit or subject name	Required Learning Outcomes	Learning method	Evaluation method
1	1	Periodontics	Laser therapy	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
2	1	Periodontics	Non-surgical periodontal therapy	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
3	1	Periodontics	Infection control	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
4	1	Periodontics	Endo-periodontal lesion	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
5	1	Periodontics	Endo-periodontal lesion	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
6	1	Periodontics	Immunology and Immunopathology	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
7	1	Periodontics	Immunology and Immunopathology	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
8	1	Periodontics	Healing of periodontal wounds	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
9	1	Periodontics	Healing of	theoretical lecture	Short quizzes, mid-term exams, end-of-semester

			periodontal wounds	using PowerPoint software	assessments, and final exams
10	1	Periodontics	Regenerative periodontal therapy	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
11	1	Periodontics	Regenerative periodontal therapy	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
12	1	Periodontics	Occlusion	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
13	1	Periodontics	Trauma from occlusion	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
14	1	Periodontics	Prognosis of periodontal diseases	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
15	1	Periodontics	Periimplantitis	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

11. Course Evaluation

Number	Assessment Measurement	Score distribution
1	second semester mid exam	40 % 20% Clinical requirement 20% Written exam
2	Second semester final exam	60 % 40% Written exam 20% Practical exam
Total	100 %	

12. Learning and Teaching Resources

Required textbooks (curricular books any)	<p>Clinical Periodontology Carrnza's book -1 ELSEVIER Edition14 Year 2019</p> <p>Lindh book Clinical Periodontology and Implant Dentistry -2 :WILEY Blackwell</p>
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	Edition :6 Year :2015
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Curriculum Development Plan	<ul style="list-style-type: none"> • Incorporating the latest research and modern techniques periodontal disease treatment to enhance students' advanced knowledge. • Increasing clinical training hours, using simulations, and organizing workshops to develop surgical and therapeutic skills. • Adopting interactive learning approaches such as problem based learning (PBL) and utilizing digital resources and modern technologies. • Implementing a comprehensive evaluation system that includes written exams, continuous clinical assessment, and case analysis to ensure student competency. • Integrating community awareness programs, involving students in health campaigns, and organizing field visits to promote oral and periodontal health.

Course Description Form

1. Course Name: ORAL and MAXILLOFACIAL SURGERY	
2. Course Code:	
BDEN001072 1	
3. Semester / Year: 2025 / 2026	
1 st SEMESTER	
4. Description Preparation Date:	
8-03-2026	
5. Available Attendance Forms:	
CLASS, GOOGLE CLASS, CLINIC	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15H THEORY/ 60 HR PRACTICAL	
7. Course administrator's name (mention all, if more than one name)	
Name: Lecturer/ khalid nawaf dhahi Email: aljidiawikhalid@gmail.com Name: assist lecturer /ali falah Email:	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Cognitive objectives 1– Providing students with basic knowledge of diseases and deformities of the face and mouth 2– That the student should be able to know the causes and side effects For surgical interventions • The program’s psychomotor objectives 1– That the student is able to analyze and access clinical data To diagnose the disease 2– The student should apply different treatment methods for each disease
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> • Direct discussion with students during the lecture • Preparing medical reports for medical cases

- Using data shows and computers
- Use the blackboard and activity sheets

10. Course Structure

Course Structure

First Semester

Week	Hours	Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
1	1	Provide students with the necessary knowledge of causes and diagnosis of maxillary fractures	MID FACE TRAUMA	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
2	1	Equip students with knowledge of various treatment methods	MID FACE TRAUMA	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
3	1	Provide students with the necessary knowledge of causes and diagnosis of mandibular fractures	MANDIBULAR TRAUMA	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
4	1	Equip students with knowledge of various treatment methods	MANDIBULAR TRAUMA	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
5	1	Provide students with knowledge of causes, diagnosis, and treatment methods	OROFACIAL PAIN	Blended Learning, Self-Learning, Active Learning, PowerPoint	Quizzes, Midterms, Practical, and Final Exams

				Lecture	
6	1	Equip students with knowledge of various diagnostic and treatment methods	VASCULAR MALFORMATION	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
7	1	Provide students with knowledge of causes, diagnosis, and treatment methods	BENIGN ORAL CYSTIC LESION	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
8	1	Equip students with knowledge of various diagnostic and treatment methods	PREMALIGNANT LESION	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
9	1	Provide students with knowledge of causes and diagnosis	PREPROSTHETIC SURGERY	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
10	1	Equip students with knowledge of various treatment methods	PREPROSTHETIC SURGERY	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
11	1	Provide students with knowledge of causes, diagnosis, and treatment methods	DENTOALVEOLAR AND SOFT TISSUE INJURIES	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
12	1	Equip students with knowledge of various diagnostic and treatment methods	ODONTOGENIC TUMORS	Blended Learning, Self-Learning, Active Learning, PowerPoint	Quizzes, Midterms, Practical, and Final Exams

				Lecture	
13	1	Provide students with knowledge of causes and diagnosis	ODONTOGENIC TUMORS AND FIBRO-OSSEOUS LESIONS OF THE JAW	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
14	1	Equip students with knowledge of various diagnostic and treatment methods	PRELIMINARY MANAGEMENT OF PATIENTS WITH FACIAL FRACTURES	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
15	1	Provide students with knowledge of causes, diagnosis, and treatment methods	ODONTOGENIC DISEASE OF MAXILLARY SINUS	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, 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

Assessment Distribution (100 Marks)

Number Assessment Measurement Score Distribution

1	First Semester Midterm	40% (20% Practical, 20% Theoretical)
2	First Semester Final	60% (40 % Theoretical, 20 % Practical)

Total **100%**

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary of oral a maxillofacial surgery , textbo
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name: ORAL and MAXILLOFACIAL SURGERY
2. Course Code: BDEN001080 2
3. Semester / Year: 2025 / 2026 2 nd SEMESTER
4. Description Preparation Date: 8-03-2026□
5. Available Attendance Forms: CLASS, GOOGLE CLASS, CLINIC
6. Number of Credit Hours (Total) / Number of Units (Total) 15H THEORY/ 60 HR PRACTICAL
7. Course administrator's name (mention all, if more than one name) Name: Lecturer/ khalid nawaf dhahi Email: aljidiawikhalid@gmail.com Name: assist lecturer /ali falah Email:

8. Course Structure					
Course Structure					
First Semester					
Week	Hours	Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
1	1	Provide students with the necessary knowledge of causes and diagnosis of maxillary fractures	MID FACE TRAUMA	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
2	1	Equip students with knowledge of various treatment	MID FACE TRAUMA	Blended Learning, Self-Learning, Active Learning,	Quizzes, Midterms, Practical, and

		methods		PowerPoint Lecture	Final Exams
3	1	Provide students with the necessary knowledge of causes and diagnosis of mandibular fractures	MANDIBULAR TRAUMA	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
4	1	Equip students with knowledge of various treatment methods	MANDIBULAR TRAUMA	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
5	1	Provide students with knowledge of causes, diagnosis, and treatment methods	OROFACIAL PAIN	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
6	1	Equip students with knowledge of various diagnostic and treatment methods	VASCULAR MALFORMATION	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
7	1	Provide students with knowledge of causes, diagnosis, and treatment methods	BENIGN ORAL CYSTIC LESION	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
8	1	Equip students with knowledge of various diagnostic and treatment methods	PREMALIGNANT LESION	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
9	1	Provide students with knowledge of causes and diagnosis	PREPROSTHETIC SURGERY	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
10	1	Equip students with knowledge of various treatment methods	PREPROSTHETIC SURGERY	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
11	1	Provide students with knowledge of	DENTOALVEOLAR AND SOFT TISSUE INJURIES	Blended Learning, Self-Learning,	Quizzes, Midterms,

		causes, diagnosis, and treatment methods		Active Learning, PowerPoint Lecture	Practical, and Final Exams
12	1	Equip students with knowledge of various diagnostic and treatment methods	ODONTOGENIC TUMORS	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
13	1	Provide students with knowledge of causes and diagnosis	ODONTOGENIC TUMORS AND FIBRO-OSSEOUS LESIONS OF THE JAW	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
14	1	Equip students with knowledge of various diagnostic and treatment methods	PRELIMINARY MANAGEMENT OF PATIENTS WITH FACIAL FRACTURES	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
15	1	Provide students with knowledge of causes, diagnosis, and treatment methods	ODONTOGENIC DISEASE OF MAXILLARY SINUS	Blended Learning, Self-Learning, Active Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams

Second Semester

Week	Hours	Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
1	1	Recognize the causes and types of oral and facial cancer and diagnose them	ORAL CANCER	Blended Learning, PowerPoint Lecture	Quizzes, Midterms, Practical, and Final Exams
2	1	Recognize different treatment methods for oral cancer	ORAL CANCER	Blended Learning, Self-Learning	Quizzes, Midterms, Practical, and Final Exams
3	1	Provide students with knowledge of causes and diagnosis of deformities	RECONSTRUCTIVE SURGERY	Blended Learning, Self-Learning, Active Learning	Quizzes, Midterms, Practical, and Final Exams
4	1	Equip students with knowledge of various treatment methods	RECONSTRUCTIVE SURGERY	Blended Learning, Self-Learning,	Quizzes, Midterms, Practical, and

				Active Learning	Final Exams
5	1	Provide students with knowledge of causes and diagnosis of temporomandibular joint disorders	TMD	Blended Learning, Self-Learning, Active Learning	Quizzes, Midterms, Practical, and Final Exams
6	1	Equip students with knowledge of various treatment methods	TMD	Blended Learning, Self-Learning, Active Learning	Quizzes, Midterms, Practical, and Final Exams
7	1	Provide students with knowledge of causes and diagnosis of salivary gland diseases	SALIVARY GLAND DISEASE	Blended Learning, Self-Learning, Active Learning	Quizzes, Midterms, Practical, and Final Exams
8	1	Equip students with knowledge of various treatment methods	SALIVARY GLAND DISEASE	Blended Learning, Self-Learning, Active Learning	Quizzes, Midterms, Practical, and Final Exams
9	1	Provide students with knowledge of causes and diagnosis of facial skeletal deformities	ORTHOGNATHIC SURGERY	Blended Learning, Self-Learning, Active Learning	Quizzes, Midterms, Practical, and Final Exams
10	1	Equip students with knowledge of various treatment methods	ORTHOGNATHIC SURGERY	Blended Learning, Self-Learning, Active Learning	Quizzes, Midterms, Practical, and Final Exams
11	1	Provide students with knowledge of causes and diagnosis of advanced dental implantology	ADVANCED CONCEPT OF IMPLANTOLOGY	Blended Learning, Self-Learning, Active Learning	Quizzes, Midterms, Practical, and Final Exams
12	1	Equip students with knowledge of various treatment methods	ADVANCED CONCEPT OF IMPLANTOLOGY	Blended Learning, Self-Learning, Active Learning	Quizzes, Midterms, Practical, and Final Exams
13	1	Provide students with knowledge of causes and	CLEFT LIP AND PALATE	Blended Learning, Self-	Quizzes, Midterms,

		diagnosis of cleft lip and palate		Learning, Active Learning	Practical, and Final Exams
14	1	Equip students with knowledge of various treatment methods	CLEFT LIP AND PALATE	Blended Learning, Self-Learning, Active Learning	Quizzes, Midterms, Practical, and Final Exams
15	1	Provide students with knowledge of causes, diagnosis, and treatment methods using laser and cryosurgery	LASER AND CRYOSURGERY	Blended Learning, Self-Learning, Active Learning	Quizzes, Midterms, Practical, and Final Exams

9. 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

Assessment Distribution (100 Marks)

1 Second Semester Midterm 40% (20% Practical, 20% Theoretical)

2 Second Semester Final 60% (35% Theoretical, 25% Practical)

Total 100%

10. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary of oral and maxillofacial surgery , textbook
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name:
Basic prosthodontics
2. Course Code:
BDEN001073 1 (4+1)
3. Semester / Year:
2026-2025/ 1 st Semesters
4. Description Preparation Date:
8-03-2026
5. Available Attendance Forms:
Weekly
6. Number of Credit Hours (Total) / Number of Units (Total)
15 theoretical/ 240 clinical
7. Course administrator's name (mention all, if more than one name)
Name: Zainab mahmood Aljammali Email: dent.zainab.mahmood@uobabylon.edu.iq
8. Course Objectives

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A-
Cognitive goals.
A1- To understand the modern concepts and the development of knowledge in the field of prosthetics.
A2- To classify the devices and materials used in the manufacture of the complete and partial artificial jaw.
A3- Determine the methods used and the steps required to diagnose problems caused by complete and partial tooth loss.
A4- To apply modern methods in the manufacture of artificial prostheses

B. The skills goals special to the course.
B1- That the student determines the anatomical signs that he uses to construct and support the complete denture.
B2- That the student distinguishes between the methods used to take primary and final impressions of the upper and lower jaw.
B3- To differentiate between the various types of methods used to record the vertical and horizontal relationship between the jaws.
B4- To learn practical skills and laboratory steps to fabricate complete and partial denture

9. Teaching and Learning Strategies

Strategy

Using various modern devices and equipment to deliver material to students as needed, including:

Data show projector
 LCD screens
 Electronic boards
 Smart boards
 Live streaming through digital cameras

10. Course Structure

Week	Unit	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		1. to know Posterior palatal seal area.	1. Posterior palatal seal area.		
2		2. to know Complete denture Occlusion	2. Complete denture Occlusion		
3	Depending On schedule	3. to know Concept of complete denture occlusion	3. Concept of complete denture occlusion	theoretical and practical lecturers	<ul style="list-style-type: none"> • Conducting theoretical and practical exams • Feedback from students • Conducting practical exams in educational clinics for medical cases for all dental specialties
4		4. to know (Sequelae of CD) Post insertion problem in CD	4.(Sequelae of CD) Post insertion problems in CD		Short quizzes, mid-term exams, end-of-semester assessments, and final exams

5		5. to know Limitation of complete denture	5. Limitation of complete denture		Short quizzes, mid-term exams, end-of-semester assessments, and final exams
6		6. to know Complication in CD wearers	6.Complication in CD wearers		
7		7. to know Complication in CD wearers (continue)	7.Complication in CD wearers (continue)		
8		8. to know Retention and stability of complete denture	8.Retention and stability of complete denture		
9		9. neutral zone technique.	9.support of complete denture		
10		10. to know support of complete denture	10.stability of complete denture		
11		11. to know stability of complete denture	11.neutral zone technique.		
12		12. to know Immediate denture (types, indication, contraindication)	12. Immediate denture (types, indication, contraindication)		
13		13. to know Immediate denture	13.Immediate denture .classification		
14		14. to know classification Single complete denture....	Single complete denture		
15		To know Single complete denture	Single complete denture (continue)		
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

Number	Assessment Measurement	Score distribution
	6% daily exams - 14% theoretical mid-course exam - 20% practical cases on patients - 40 theoretical end-of-course exam - 20% practical end-of-course exam	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

1. Zarb GA, Bolender CL. Prosthodontic
2. treatment for edentulous patients. 12th
3. edition. 2004; Mosby, USA.
4. Saradha D.L. Zakir Hussain, Uthkarsh.
5. Text book of complete denture

	6. prosthodontics. 2007;Jaypee , India.
Main references (sources)	<ol style="list-style-type: none"> 1. Zarb. Hobkirk. Eckert. Jacob. 2. Prosthodontic treatment for 3. edentulous patients. 13th edition. 4. 2012;Mosby, USA. 5. Deepak NV, Karthikeyan R, 6. Vinaya B. Textbook of 7. prosthodontics. 2005; Jaypee, India.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name:	
Advance Prosthetic	
2. Course Code:	
BDEN001081 2 (4+1)	
3. Semester / Year:	
2026-2025/ 2 nd Semesters	
4. Description Preparation Date:	
8-03-2026	
5. Available Attendance Forms:	
Weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15 theoretical/ 240 clinical	
7. Course administrator's name (mention all, if more than one name)	
Name: Zainab mahmood Aljammali Email: dent.zainab.mahmood@uobabylon.edu.iq	
8. Course Objectives	
Course	A-Cognitive goals.

Objectives	<p>A1- To understand the modern concepts and the development of knowledge in the field of prosthetics.</p> <p>A2- To classify the devices and materials used in the manufacture of the complete and partial artificial jaw.</p> <p>A3- Determine the methods used and the steps required to diagnose problems caused by complete and partial tooth loss.</p> <p>A4- To apply modern methods in the manufacture of artificial prostheses</p> <p>B. The skills goals special to the course.</p> <p>B1- That the student determines the anatomical signs that he uses to construct and support the complete denture.</p> <p>B2- That the student distinguishes between the methods used to take primary and final impressions of the upper and lower jaw.</p> <p>B3- To differentiate between the various types of methods used to record the vertical and horizontal relationship between the jaws.</p> <p>B4- To learn practical skills and laboratory steps to fabricat complete and partial denture</p>
<p>9. Teaching and Learning Strategies</p>	
Strategy	<p>Using various modern devices and equipment to deliver material to students as needed, including:</p> <p>Data show projector</p> <p>LCD screens</p>

	Electronic boards Smart boards Live streaming through digital cameras				
10. Course Structure					
Week	Unit	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		To know Maxillofacial prosthesis	Maxillofacial prosthesis		
2		To know Prosthetic treatment for irradiated patient	Prosthetic treatment for irradiated patient		
3	Depending schedule	To know Over denture	Over denture	theoretical and practical lecturers	<ul style="list-style-type: none"> • Conducting theoretical • and practical exams • Feedback from • students • Conducting practical • exams in educational

					<ul style="list-style-type: none"> • clinics for medical cases • for all dental specialties
4		To know Tooth support over denture	Tooth supported over denture		Short quizzes, mid-term exams, end-of-semester assessments, and final exams
5		To know Implant supported over denture	Implant supported over denture		Short quizzes, mid-term exams, end-of-semester assessments, and final exams
6		To know Esthetic consideration of complete denture	Esthetic consideration complete denture		
7		To know Esthetic consideration of complete denture (continue)	Esthetic consideration complete denture (continue)		
8		To know Duplication of CD.	Duplication of CD.		
9		To know Dental impl	Dental		

		(classification)	implant (classification)		
10		To know Dental impl (technique)	Dental implant (technique)		
11		To know Dental impl (materials)	Dental implant (materials)		
12		To know Geriat dentistry related prosthetic	Geriatric dentistry related to prosthetic		
13		To know Residual rid resorption	Residual ridge resorption		
14		To know Precisi attachments.	Precision attachments.		
15		To know Maxillofacial prosthesis	Maxillofacial prosthesis		

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

Number	Assessment Measurement	Score distribution
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	5% daily exams - 15% theoretical mid-course exam - 20% practical cases on patients - 40 Theoretical end-of-course exam - 20% practical end-of-course exam	
12. Learning and Teaching Resources		
Required textbooks (curricular books, if any)	1-Zarb GA, Bolender CL. Prosthodontic treatment for edentulous patients. 12th edition. 2004;Mosby, USA. 2-SaradhaD.L.ZakirHussain , Uthkarsh. Text book of complete denture prosthodontics. 2007;Jaypee , India.	
Main references (sources)	1-Zarb. Hobkirk. Eckert. Jacob. Prosthodontic treatment for edentulous patients. 13th edition. 2012;Mosby, USA. 2-Deepak NV, Karthikeyan R, Vinaya B. Textbook of prosthodontics. 2005; Jaypee, India.	
Recommended books and references (scientific journals, reports...)		
Electronic References, Websites		

Course Description Form

1. Course Name:					
Clinical Endodontics					
2. Course Code:					
BDEN001074 1					
3. Semester / Year:					
Fifth year/ 1st. semester					
4. Description Preparation Date:					
8-03-2026					
5. Available Attendance Forms:					
In Office Hands on course					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theory:1 Practical:4/ units: 3					
7. Course administrator's name (mention all, if more than one name)					
Lect. Hasan Mohsin Al-Rammahi dent.hasan.mohsin@uobabylon.edu.iq					
8. Course Objectives					
<p>A.Cognitive goals: To enable students to gain Medical and dental Knowledge of:</p> <p>A1. Basic Knowledge about the clinical endodontics root canal filling materials and techniques</p> <p>A2. Clinical training for the skills of the above treatments.</p> <p>A3. Clinical training for the skills of the above treatments.</p> <p>A4. the impact of social factors on oral health and disease.</p> <p>A5. the basic scientific and ethical principles of clinical research.</p>			<p>B. The skills goals special to the programme .</p> <p>B1. To enable students to apply scientific methods to the practice of dentistry for the identification of problems, data collection, hypothesis formulation, and the application of deductive reasoning to problem solving, clinical reasoning, and decision-making.</p> <p>B2. To successfully integrate collected clinical information to carry out appropriate diagnostic and treatment plans for patients across the broad spectrum of acute and chronic conditions.</p> <p>B3. To perform basic risk assessments and formulate plans to promote patient wellbeing.</p>		
9. Teaching and Learning Strategies					
Strategy		<ul style="list-style-type: none"> A data show projector is used for direct lectures Microsoft power point for lecture presentations Live demonstrations Preclinical and clinical training with direct supervision Group Seminars , group meeting, instructions and Discussion Graduation Research 			
10. Course Structure					
Week	Hours	Unit or subject name	Required Learning Outcomes	Learning method	Evaluation method
1	1	Endodontic diagnosis	Affective and value goals	A data show projector is	Participation & Activity

2	1	Endodontic radiography	<p>1. To affectively counsel and educate patients and their families.</p> <p>2. To design diagnostic and treatment options in a manner that will help the participation of patients and their families in shared decision-making.</p> <p>3. To effectively communicate with members, including both dentist and non-dentist professionals, of the health care team.</p>	<p>used for direct lectures</p> <p>Microsoft power point for lecture presentations</p> <p>Live demonstrations</p> <p>Preclinical and clinical training with direct supervision</p> <p>Group Seminars , group meeting, instructions and Discussion</p> <p>Graduation Research</p>	<p>Quizzes</p> <p>Written Examinations</p> <p>Mid Exam</p> <p>Practical/clinical Assessments and Practical/clinical Examinations</p> <p>Final Examination: Theory 40% and Practical or clinical 20%</p> <p>Committee discussion of seminars and graduation research</p>
3	1	Working length Determination			
4	1	Intracanal instruments			
5	1	Rotary and Advanced instrumentation techniques			
6	1	Root canal irrigation.			
7	1	Obturation of the root canal system			
8	1	Mid-Exam			
9	1	Restoration of Endodontically Treated Teeth			
10	1	Microbiology			
11	1	Endodontic-Periodontal Relations			
12	1	Endodontic Failures			
13	1	//			
14	1	Endodontic Emergency Treatment			
15	1	Tooth discoloration and bleaching.			

11. Course Evaluation

Quizzes Written Examinations=5%
Mid Exam=20%
Practical/clinical Assessments and Practical/clinical Examinations=15%
Final Examination: Theory 40% and Practical or clinical 20%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Ingle's Endodontics
Main references (sources)	Cohen's pathways of the pulp
Recommended books and references (scientific journals, reports...)	Journal of Endodontics
Electronic References, Websites	Lectures are available on university official website and lecturer youtube channel
The development of the curriculum plan	1. Continuous update of scientific Programs to follow global development of latest clinical procedures and materials

	<ol style="list-style-type: none">2. Continuous medical education programs for college graduates and members as well as other formal institutes in the region3. Use of newest technologies for student training and improvement of their practice and knowledge.
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Course Description Form

1. Course Name:					
Clinical Fixed Prosthodontics					
2. Course Code:					
BDEN001082 2					
3. Semester / Year:					
Fifth year/ 2nd. semester					
4. Description Preparation Date:					
8-03-2026					
5. Available Attendance Forms:					
In Office Hands on course					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theory:1 Clinical:4/ units: 3					
7. Course administrator's name (mention all, if more than one name)					
Name: 1- Prof.Dr. Ameer Hamdi Al-Ameedee Email: dent.ameer.hamdi@uobabylon.edu.iq					
8. Course Objectives					
<p>A. Cognitive goals: To enable students to gain Medical and dental Knowledge of:</p> <p>A1. Basic Knowledge about the clinical steps for construction of fixed prosthesis, materials used and techniques</p> <p>A2. Clinical training outcome and prognosis of the above treatments.</p> <p>A3. Clinical training for the skills of the above treatments.</p> <p>A4. the impact of social factors on oral health and disease.</p> <p>A5. the basic scientific and ethical principles of clinical research.</p>			<p>B. The skills goals special to the programme .</p> <p>B1. To enable students to apply scientific methods to the practice of dentistry for the identification of problems, data collection, hypothesis formulation, and the application of deductive reasoning to problem solving, clinical reasoning, and decision-making.</p> <p>B2. To successfully integrate collected clinical information to carry out appropriate diagnostic and treatment plans for patients across the broad spectrum of acute and chronic conditions.</p> <p>B3. To perform basic risk assessments and formulate plans to promote patient wellbeing.</p>		
9. Teaching and Learning Strategies					
Strategy		<ul style="list-style-type: none"> A data show projector is used for direct lectures Microsoft power point for lecture presentations Live demonstrations Preclinical and clinical training with direct supervision Group Seminars , group meeting, instructions and Discussion Graduation Research 			
10. Course Structure					
Week	Hours	Unit or subject name	Required Learning Outcomes	Learning method	Evaluation method
1	1	Terminology,	Affective and	A data show	Participation &

		definition of fixed partial denture , Effect of Tooth Loss, Comparison with R.P.D	value goals 1. To affectively counsel and educate patients and their families.	projector is used for direct lectures Microsoft power point for lecture presentations Live demonstrations Preclinical and clinical training with direct supervision Group Seminars , group meeting, instructions and Discussion Graduation Research	Activity Quizzes Written Examinations Mid Exam Practical/clinical Assessments and Practical/clinical Examinations Final Examination: Theory 40% and Practical or clinical 20% Committee discussion of seminars and graduation research
2	1	Types of Fixed Bridge including Basic Bridge Design	2. To design diagnostic and treatment options in a manner that will help the participation of patients and their families in shared decision-making.		
3	1	Components of Fixed Bridge			
4	1	Clinical Consideration for Bridge Construction.- _Abutment Tooth(evaluation and selection) _Crown/Root Ratio. _Splinting of teeth. _Patient Occlusal Status. _General Factors.	3. To effectively communicate with members, including both dentist and non-dentist professionals, of the health care team.		
5	1	Principles of Bridge Design (Bridge design for Single and Multiple replacements)			
6	1	Clinical Situations affecting Bridge Design; (Post. Tilted Abutments, Span Length, Pier Abut., Arch Curvature)			
7	1	Diagnosis And Treatment			

		Plan.			
8	1	Mid-Exam			
9	1	Gingival retraction and impression(techniques)			
10	1	Bite Registration, provisional Restoration and Articulation			
11	1	Shade Selection and Try-in , Final Cementation of F.P.Ds.(Techniques)			
12	1	Failure in Fixed Prosthodontics.			
13	1	Porcelain in Fixed Prosthodontics			
14	1	Indirect esthetic adhesive restoration			
15	1	Resin bonded bridge			

11. Course Evaluation

Quizzes Written Examinations=5%

Mid Exam=20%

Practical/clinical Assessments and Practical/clinical Examinations=15%

Final Examination: Theory 40% and Practical or clinical 20%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary Fixed Prosthodontics
Main references (sources)	Rosentetiel.Land.Fugimoto
Recommended books and references (scientific journals, reports...)	Journal of Prosthodontics
Electronic References, Websites	Lectures are available on university official website and lecturer youtube channel
The development of the curriculum plan	<ol style="list-style-type: none"> 1. Continuous update of scientific Programs to follow global development of latest clinical procedures and materials 2. Continuous medical education programs for college graduates and members as well as other formal institutes in the region 3. Use of newest technologies for student

	training and improvement of their practice and knowledge.
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Course Description :Orthodontics (fifth stage)

1. Course Name:	
Orthodontics	
2. Course Code:	
1 st Semester: BDEN001075 1. 2 nd Semester: BDEN001083 2	
3. Semester / Year:	
1 st and 2 nd Semester /fifth stage/ 2025-2026	
4. Description Preparation Date:	
8-03-2026	
8-03-2026	
5. Available Attendance Forms:	
Theoretical lectures and educational clinics	
6. Number of Credit Hours (Total) / Number of Units (Total):	
45/2	
7. Course administrator's name (mention all, if more than one name)	
<p>Name: Prof. Dr. Thaer Jaber Abdulsahib Emil: thaer.al-khafaji@uobabylon.edu.iq Name: Assist. Prof. Qasim Ahmed Abeas Dent.kasem.Ahmed@uobabylon.edu.iq Name: Assist. Prof. Lamis khadir mohammed dent.lamis.khider@uobabylon.edu.iq Name: Assist. Prof. Issam Merrzh Abdullah dent.issam.merrzh@uobabylon.edu.iq Name: Asisst lect. Omaila lateef Salman omaimalateef@uobabylon.edu.iq Name : Lect. Basam Ali Hussien den783.bsam.ali@uobabylon.edu.iq Name: Assist. Lect. Akeel muslim Email: den426.akeel.muslum@uobabylon.edu.iq</p>	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Preparing the student at a high level of science with regard to the diagnosis and treatment of simple cases of malocclusion using the removable and functional appliances. <p style="text-align: center;">The skills goals special to the programme.</p>

- 1- Knowledge of special diagnostic methods
- 2 - Knowing the types of orthodontic devices related to each case

9. Teaching and Learning Strategies

Strategy	1-The method of lectures (Microsoft power point)). 2-The method of e-learning by uploading the lectures on the college website for the lectures of the teachers in the college. 3. Practical training for students in educational labs. 4. Using the Babylon University platform (Moodle) to raise lectures and take exams. 5. LCD screen, Electronic boards, Smart boards, Live streaming through digital cameras
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10. Course Structure

1st course

Week	Hours	Required Learning Outcomes	Unit/ or subject name	Learning Method	Evaluation Method
1	1	Occlusion and TMJ	Occlusion and TMJ	theoretical lecture	Short, semester & final exams
2	1	Orthodontic indices	Orthodontic indices	theoretical lecture	Short, semester & final exams
3	1	Orthodontic diagnosis A-patient interview (Complaint, perception, Different factors	Orthodontic diagnosis A-patient interview (Complaint, perception, Different factors	theoretical lecture	Short, semester & final exams
4	1	B -Clinical examination	B -Clinical examination	theoretical lecture	Short, semester & final exams
5	1	C-Intra-oral examination (Oral and dental health, occlusal features in 3-planes)	C-Intra-oral examination (Oral and dental health, occlusal features in 3-planes)	theoretical lecture	Short, semester & final exams
6	1	Diagnostic records (study models,	Diagnostic records (study models,	theoretical lecture	Short, semester & final exams

		photographs, Radiographs	photographs, Radiograph		
7	1	OPG and Cephalometric Radiograph	OPG and Cephalometric Radiograph	theoretical lecture	Short, semester & final exams
8	1	Treatment Planning (From problem list to Informed consent)	Treatment Planning (From problem list to Informed consent)	theoretical lecture	Short, semester & final exams
9	1	Bad Oral Habit (Definition, classification, management)	Bad Oral Habit (Definition, classification, management)	theoretical lecture	Short, semester & final exams
10	1	Treatment of medically compromised patient	Treatment of medically compromised patient	theoretical lecture	Short, semester & final exams
11	1	Space analysis	Space analysis	theoretical lecture	Short, semester & final exams
12	1	Teeth extraction in Orthodontics	Teeth extraction in Orthodontics	theoretical lecture	Short, semester & final exams
13	1	Serial extraction	Serial extraction	theoretical lecture	Short, semester & final exams
14	1	Treatment of vertical problems (deepbite)	Treatment of vertical problems (deepbite)	theoretical lecture	Short, semester & final exams
15	1	Openbite	Openbite	theoretical lecture	Short, semester & final exams

2nd course

Week	Hours	Required Learning Outcomes	Unit/ or subject name	Learning Method	Evaluation Method
1	1	Treatment of aberrant position of canines	Treatment of aberrant position of canines	theoretical lecture	Short, semester & final exams
2	1	Treatment of Local Factors (Supernumerary and Hypodontia); (Early loss and Retained teeth); (Delay Eruption,	Treatment of Local Factors (Supernumerary and Hypodontia); (Early loss and Retained teeth);	theoretical lecture	Short, semester & final exams

		Impaction, Ankylosis); (Abnormal Eruption behavior and Large Frenum)	(Delay Eruption, Impaction, Ankylosis); (Abnormal Eruption behavior and Large Frenum)		
3	1	Treatment of Local Factors (Bad Oral Habits) Definition, classification, Treatment	Treatment of Local Factors (Bad Oral Habits) Definition, classification, Treatment	theoretical lecture	Short, semester & final exams
4	1	Treatment of General factors (Class I Malocclusion) Crowding, Spacing, Bimaxillary dentoalveolar protrusion	Treatment of General factors (Class I Malocclusion) Crowding, Spacing, Bimaxillary dentoalveolar protrusion	theoretical lecture	Short, semester & final exams
5	1	Treatment of Class I Malocclusion (Methods of space Creation)	Treatment of Class I Malocclusion (Methods of space Creation)	theoretical lecture	Short, semester & final exams
6	1	treatment of Class II div.1 Malocclusion	treatment of Class II div.1 Malocclusion	theoretical lecture	Short, semester & final exams
7	1	Treatment of Class II div.2 Malocclusion	Treatment of Class II div.2 Malocclusion	theoretical lecture	Short, semester & final exams
8	1	Treatment of Class III Malocclusion; Section 1	Treatment of Class III Malocclusion; Section 1	theoretical lecture	Short, semester & final exams
9	1	Treatment of Class III Malocclusion; Section 2	Treatment of Class III Malocclusion; Section 2	theoretical lecture	Short, semester & final exams
10	1	Treatment of periodontal Problems in Adults	Treatment of periodontal Problems in Adults	theoretical lecture	Short, semester & final exams
11	1	Orthognathic surgery section 1	Orthognathic surgery section 1	theoretical lecture	Short, semester & final exams

12	1	Orthognathic surgery section 2	Orthognathic surgery section 2	theoretical lecture	Short, semester & final exams
13	1	Management of cleft lip and palate section 1	Management of cleft lip and palate section 1	theoretical lecture	Short, semester & final exams
14	1	Management of cleft lip and palate section 1	Management of cleft lip and palate section 1	theoretical lecture	Short, semester & final exams
15	1	Digital orthodontics	Digital orthodontics	theoretical lecture	Short, semester & 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

Number	Assessment Measurement		Score Distribution
1	First semester mid exam	40 %	20% Clinical requirement 20% Written exam
2	First semester final exam	60 %	40% Written exam 20% Practical exam
Total		100 %	

Number	Assessment Measurement		Score Distribution
1	Second semester mid exam	40 %	20% Clinical requirement 20% Written exam
2	Second semester final exam	60 %	40% Written exam 20% Practical exam
Total		100 %	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary Orthodontics, William R. Proffit. Sixth edition Textbook of Orthodontics Singh 2017
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Program Development Plan

- Negotiation and Persuasion: The student should be able to influence others, persuade them, discuss them and reach an agreement.
- Leadership: The student should be able to lead, motivate and direct others.

Independence at work: The student should be able to assume responsibility and independence by working under various circumstances

Course Description Form

1. Course Name:	
Pediatric Dentistry	
2. Course Code:	
BDEN001076 1 BDEN001084 2	
3. Semester:	
1 st Semester/ fifth stage/ 2025-2026 2 nd Semester/ fifth stage/ 2025-2026	
4. Description Preparation Date:	
8-03-2026 8-03-2026	
5. Available Attendance Forms:	
Theoretical lectures ,educational clinics	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45/ 2 45/ 2	
7. Course administrator's name (mention all, if more than one name)	
Name: lect. Israa Hussien Ali Email: dent.israa.ali@uobabylon.edu.iq Name: Lect. Sarah Yousif Abass Email: sarah.abbas@uobabylon.edu.com Name: Lect. Mukaled Luoay Ali Email: mukhaled885@gmail.com	
8. Course Objectives	
Course Objectives	<p>First: Cognitive Objectives</p> <p>Understand and assimilate the theoretical and practical methods of treating all cases of injury to children's teeth and identify the scientific methods and methods supported by the means of illustration to know how to identify primary and permanent teeth and the problems related to them</p>

		<p>Secondly: Skill-based Objectives</p> <p>1-Know how to deal with children and treat their dental needs</p> <p>2. Command extracting children’s teeth.</p> <p>3. Master performing various types of restorations for children and adolescent patients.</p> <p>4. Dominate pulpotomy procedure</p>			
9. Teaching and Learning Strategies					
Strategy	<p>1-The method of lectures (Microsoft power point).</p> <p>2-The method of e-learning by uploading the lectures on the college website for the lectures of the teachers in the college.</p> <p>3. Using the Babylon University platform (Moodle) to raise lectures and take exams.</p> <p>4. LCD screen, Electronic boards, Smart boards, Live streaming through digital cameras</p>				
10. Course Structure					
First Course:					
Week	Hours	Required Learning Outcomes	Unit/subject Title	Learning Method	Evaluation Method
First week	1	Diagnosis and treatment planning in Pediatric dentistry	Diagnosis and treatment planning in Pediatric dentistry	theoretical lecture	Short, semester & final exams
Second week	1	Preliminary medical and dental history	Preliminary medical and dental history	theoretical lecture	Short, semester & final exams

Third week	1	Art and science of behavior management	Art and science of behavior management	theoretical lecture	Short, semester & final exams
Fourth week	1	Non pharmacologic management of patient behavior	Non pharmacologic management of patient behavior	theoretical lecture	Short, semester & final exams
Fifth weeks	1	Pharmacologic management of patient behavior	Pharmacologic management of patient behavior	theoretical lecture	Short, semester & final exams
Sixth week	1	Sedation in pediatric dentistry	Sedation in pediatric dentistry	theoretical lecture	Short, semester & final exams
seventh week	1	Management of traumatic injuries to the teeth and supporting tissues of children	Management of traumatic injuries to the teeth and supporting tissues of children	theoretical lecture	Short, semester & final exams
eighth week	1	Classification of injuries to the anterior teeth of children classification methods of clinical examination	Classification of injuries to the anterior teeth of children classification methods of clinical examination	theoretical lecture	Short, semester & final exams
Ninth week	1	Traumatic injuries of the primary teeth and its effect on permanent teeth	Traumatic injuries of the primary teeth and its effect on permanent teeth	theoretical lecture	Short, semester & final exams

Tenth week	1	Treatment of injury of permanent teeth	Treatment of injury of permanent teeth	theoretical lecture	Short, semester & final exams
Eleventh weeks	1	Emergency treatment, temporary restoration of fractured teeth	Emergency treatment, temporary restoration of fractured teeth	theoretical lecture	Short, semester & final exams
Twelfth week	1	Acquired disturbances of oral structures, Disturbances in tooth structure	Acquired disturbances of oral structures, Disturbances in tooth structure	theoretical lecture	Short, semester & final exams
thirteenth week	1	Disturbances in tooth colour, Disturbance in eruption	Disturbances in tooth colour, Disturbance in eruption	theoretical lecture	Short, semester & final exams
Fourteenth Week	1	Developmental disturbances of oral structures, Anomalies of number, Anomalies of size	Developmental disturbances of oral structures, Anomalies of number, Anomalies of size	theoretical lecture	Short, semester & final exams
Fifteenth Week	1	Anomalies of shape, Anomalies of structure	Anomalies of shape, Anomalies of structure	theoretical lecture	Short, semester & final exams

Second semester

Week	Hours	Required Learning Outcomes	Unit/subject Title	Learning Method	Evaluation Method
First week	1	Gingivitis and gingival diseases in children	Gingivitis and gingival diseases in children	theoretical lecture	Short, semester & final exams

Second week	1	Acute candidacies (thrush), acute bacterial infection, chronic non-specific gingivitis, gingival diseases modified by systemic factors	Acute candidacies (thrush), acute bacterial infection, chronic non-specific gingivitis, gingival diseases modified by systemic factors	theoretical lecture	Short, semester & final exams
Third week	1	Gingival lesions of genetic origin, ascorbic acid deficiency gingivitis.	Gingival lesions of genetic origin, ascorbic acid deficiency gingivitis.	theoretical lecture	Short, semester & final exams
Fourth week	1	Periodontal diseases in children, early onset periodontitis, prepubertal periodontitis, localized juvenile periodontitis	Periodontal diseases in children, early onset periodontitis, prepubertal periodontitis, localized juvenile periodontitis	theoretical lecture	Short, semester & final exams
Fifth weeks	1	Papillon – Lefevre syndrome, gingival recession, extrinsic stains and deposits on teeth	Papillon – Lefevre syndrome, gingival recession, extrinsic stains and deposits on teeth	theoretical lecture	Short, semester & final exams
Sixth week	1	Management of space problems, planning for space maintenance, loss of primary incisors	Management of space problems, planning for space maintenance, loss of primary incisors	theoretical lecture	Short, semester & final exams
seventh week	1	Space Maintenance for the First and Second Primary Molar and the Primary Canine Area, premature	Space Maintenance for the First and Second Primary Molar and the Primary Canine Area, premature loss of second primary molar	theoretical lecture	Short, semester & final exams

		loss of second primary molar			
eighth week	1	Loss of the Second Primary Molar Before Eruption of the First Permanent Molar, Areas of Multiple Primary Molar Loss	Loss of the Second Primary Molar Before Eruption of the First Permanent Molar, Areas of Multiple Primary Molar Loss	theoretical lecture	Short, semester & final exams
Ninth week	1	Development of dental arch and occlusion	Development of dental arch and occlusion	theoretical lecture	Short, semester & final exams
Tenth week	1	Arch length analysis	Arch length analysis	theoretical lecture	Short, semester & final exams
Eleventh weeks	1	Dental problems of the disabled child	Dental problems of the disabled child	theoretical lecture	Short, semester & final exams
Twelfth week	1	Mental disability, Down syndrome, Intellectual disability, Learning disability	Mental disability, Down syndrome, Intellectual disability, Learning disability	theoretical lecture	Short, semester & final exams
thirteenth week	1	Fragile X syndrome, cerebral palsy, autism	Fragile X syndrome, cerebral palsy, autism	theoretical lecture	Short, semester & final exams
Fourteenth Week	1	Respiratory diseases, hearing loss, visual impairment,	Respiratory diseases, hearing loss, visual impairment, epilepsy	theoretical lecture	Short, semester & final exams

		epilepsy			
Fifteenth Week	1	Heart disease, hemophilia, sickle cell anemia, viral hepatitis, AIDS, children with systemic diseases	Heart disease, hemophilia, sickle cell anemia, viral hepatitis, AIDS, children with systemic diseases	theoretical lecture	Short, semester & final exams

11.Course Evaluation

The grade of the semester (100) is distributed as follows:

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

Number	Assessment Measurement		Score Distribution
1	First-semester mid exam	40 %	20% Written exam 20% practical exam
2	First-semester final exam	60 %	40% Written exam 20% practical exam
Total		100 %	

Number	Assessment Measurement		Score Distribution
1	Second-semester mid exam	40 %	20% Written exam 20% practical exam
2	Second-semester final exam	60 %	40% Written exam 20% practical exam
Total		100 %	

12 Learning and Teaching Resources

Required textbooks (methodology, if any)

Key references (sources)	<ol style="list-style-type: none"> 1. McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier 2. Pediatric Dentistry Damile 3rd ed. 2009 3. Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delh 4. Hand book of pediatric dentistry (Cameron) mosby/third edition/2008 5. Principles and practice of pedodontics /Arathi Rao Jaypee/second edition2008 6. Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012
Recommended books and references (scientific journals, reports...)	
Electronic references, websites	

Course Development Plan	<ul style="list-style-type: none">• Negotiation and Persuasion: The student should be able to influence others, persuade them, discuss them and reach an agreement.• Leadership: The student should be able to lead, motivate and direct others.• Independence at work: The student should be able to assume responsibility and independence by working under various circumstances

Course Description Form

1. Course Name	
: Oral medicine	
Course Code	
BDEN001077 1	
3. Semester / Year: 1 st Semesters / 2025-2026	
4. Description Preparation Date: 8-03-2026	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total):	
٦٠ ساعة عملي / ٤ وحدات ١٥ ساعة نظري / 2 وحدات	
7. Course administrator's name (mention all, if more than one name)	
Name: Lecture: dunya malhan hanweet / Ass.prof. dr.Maytham riyadh	
Email: Den528.dunya.malhan@uobabylon.edu.iq / Maytham.riyath@uobabylon.edu.iq	
8. Course Objectives	
	<ul style="list-style-type: none"> • A profound knowledge about the principles of oral MEDICINE. *Experience in management of medically compromised patients. *Experience in the diagnosis of oral lesion and their treatment. *The student learns how to deal with patients with systemic diseases from legal point of view. *student learns how to DEAL temporomandibular joint problem patients. .
9. Teaching and Learning Strategies	
Strategy	1- Thinking strategy according to student's ability. 2- Global thinking skill strategy. 3- Critical thinking strategy in learning.

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1 h	Essentials of oral diagnosis		
2	1 h	Lab investigation		
3	1 h	Medication	theoretical and practical lecturers	<ul style="list-style-type: none"> • Conducting theoretical and practical exams • Feedback from students • Conducting practical exams in educational clinics for medical cases for all dental specialties
4	1 h	Medication		
5	1 h	TMJ disorders		
6	1 h	TMJ disorders		
7	1 h	Ulcerative, vesical, bullous lesions		
8	1 h	Ulcerative vesical, bullous lesion		
9	1 h	Red and white lesion		
10	1 h	Red and white lesion		
11	1 h	Pigmented oral lesion		
12	1 h	Pigmented oral lesion		
13	1 h	Early detection of oral cancer		
14	1h	Oral cancer		
15	1h	Oral cancer		

Number	Assessment Measurement		
1	First semester mid exam	40 %	20% Clinical require 20% Written exam
2	First semester final exam	60 %	40% Written exam 20% Practical exam
Total		100 %	

11.Course Evaluation

12.Learning and Teaching Resources

Re quired textbooks (curricu books, if any)	1- Burkets oral medicine : الناشر John Wiley & Sons, Inc.J الطبعة: 13 :السنة 2021 2- Dental management of the medically c : الناشر Elsvier :الطبعة 9 :السنة 2015
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name:				
Oral medicine				
Course Code				
BDEN001085. 2				
3. Semester / Year: 2 nd Semesters / 2025-2026				
4. Description Preparation Date:				
8-03-2026				
5. Available Attendance Forms:				
6. Number of Credit Hours (Total) / Number of Units (Total):				
و ٦٠ ساعة عملي / ٤ وحدات و ١٥ ساعة نظري / ٢ وحدات.				
7. Course administrator's name (mention all, if more than one name)				
Name: Lecturer: dunya malhan hanweet / Ass.prof. dr.Maytham riyadh Email: Den528.dunya.malhan@uobabylon.edu.iq/ Maytham.riyath@uobabylon.edu.iq				
8. Course Objectives				
<ul style="list-style-type: none"> • A profound knowledge about the principles of oral MEDICINE. *Experience in management of medically compromised patients. *Experience in the diagnosis of oral lesion and their treatment. *The student learns how to deal with patients with systemic diseases from legal point of view. *student learns how to with temporomandibular joint problem patients. . 				
	Hour s	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1h	Viral infections		
2	1h	Salivary gland diseases part 1		

3	1h	Salivary gland diseases part 2		
4	1h	Oral manifestation of allergic disease		
5	1h	Orofacial pain part1		
6	1h	Orofacial pain part2		
7	1h	Benign lesions of oral cavity		
8	1h	Benign lesions of oral cavity		
9	1h	Autoimmune disease part1		
10	1h	Autoimmune disease part2		
11	1h	Endocrine disease		
12	1h	Endocrine disease		
13	1h	Neuromuscular disorders part 1		
14	1h	Neuromuscular disorder part2		
15	1h	Premalignant lesion		

9. Teaching and Learning Strategies

Strategy	1- Thinking strategy according to student's ability. 2- Global thinking skill strategy. 3- Critical thinking strategy in learning.
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10. Course Structure

Week	Outcomes	Required Learning	Unit or subject name	Learning method
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11. Course Evaluation

	Number	Assessment Measurement		Score distribution
	1	Second semester mid exam	40 %	20% Clinical requirement 20% Written exam
2	Second semester final exam	60 %	40% Written exam 20% Practical exam	
Total		100 %		

12. Learning and Teaching Resources

Required textbooks (curricular books any)	<p>1- Burkets oral medicine : الناشرohn Wiley & Sons, Inc.] الطبعة: 13 : السنة2021</p> <p>2- Dental management of the medical compromised patients : الناشرElsvier : الطبعة9 : السنة2015</p>
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name:	
Preventive dentistry	
2. Course Code:	
BDEN001078 1	
3. Semester / Year:	
2025-2026/ 1 st Semesters	
4. Description Preparation Date:	
8-03-2026	
5. Available Attendance Forms:	
Weekly -attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45hr-2 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Ass. Prof. Dr. Hassan Faleeh Farhan Email: dent.hasan.faleeh@uobabylon.edu.iq Name: lec Dr.Duha Malek Hasan Email: den129.duha.malik@uobabylon.edu.iq Name: Lec. Zahraa Mohamed Hussein Wais Email: Zahraa.Wais @uobabylon.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Introducing the importance of preventive dentistry and its applications for individuals and society, especially for widespread diseases such as tooth decay and gum disease, as well as with regard to nutrition and immune factors against oral and dental disease
9. Teaching and Learning Strategies	
Strategy	Using various modern devices and equipment to deliver material to students as needed, including: Data show projector LCD screens Electronic boards Smart boards Live streaming through digital cameras
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Preventive dentistry	Prevention of oral diseases (introduction)	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
2	1	Preventive dentistry	Dental development caries	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
3	1	Preventive dentistry	Diagnosis of dental caries	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
4	1	Preventive dentistry	Fluoride in dentistry	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
5	1	Preventive dentistry	Fluorides prevention controlling in and dental caries	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
6	1	Preventive dentistry	Topical fluoride therapy: Professionally applied fluoride	theoretical lecture using PowerPoint software.	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
7	1	Preventive dentistry	Topical fluoride therapy :Self- applied fluoride	theoretical lecture using	Short quizzes, mid-term

				PowerPoint software.	exams, end-of-semester assessments, and final exams
8	1	Preventive dentistry	Safety and toxicity of fluoride	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
9	1	Preventive dentistry	Dental sealants	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
10	1	Preventive dentistry	New approach in restorative dentistry	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
11	1	Preventive dentistry	Microbiology of dental caries	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
12	1	Preventive dentistry	saliva and host defense mechanism	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
13	1	Preventive dentistry	Caries risk assessment	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
14	1	Preventive dentistry	Oral hygiene measures	theoretical	Short quizzes,

			(Mechanical)	lecture using PowerPoint software	mid-term exams, end-of-semester assessments, and final exams
15	1	Preventive dentistry	Oral hygiene measures (Chemical)	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

11. Course Evaluation

Number	Assessment Measurement		Score distribution
1	First semester mid exam	40 %	20% Clinical requirement 20% Written exam
2	First semester final exam	60 %	40% Written exam 20% Practical exam
Total		100 %	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> The prevention of oral disease by Murry JJ NunnJH . and Steele JG fourth edition, 2003. Primary Preventive Dentistry by Harris NO GarciaGodoyF-NatheCN 7th Ed. (2008). Textbook of Cariology by Fejerscov and Thylstry 1996 5-Principles and practice of public health dentistry by Krishna M and DasarPL.2010.
Main references (sources)	<ul style="list-style-type: none"> Essential of dental caries the disease and its management by Kidd E third edition (2005). Community dentistry by Sikri V and Sikri P 2008. Text book of preventive and social - medicine. Gupta M. and Mahajan BK.3rd edition, 2003. <p>Dentistry, dental practices and community. Striffler D, Young W., edition 1999.</p>
Recommended books and references (scientific)	<ul style="list-style-type: none"> Oral health & preventive dentistry.

journals, reports...)	Journal of International Society Preventive and Community Dentistry
Electronic References, Websites	<ul style="list-style-type: none"> • American Association of Public Health Dentistry. https://www.aaphd.org/ • International Society of Preventive and Community Dentistry. https://www.jispcd.org/

Course Description Form

1. Course Name:	
Preventive dentistry	
2. Course Code:	
BDEN001086 2	
3. Semester / Year:	
2025-2026/ 2 nd Semesters	
4. Description Preparation Date:	
8-03-2026	
5. Available Attendance Forms:	
Weakly-attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45hr-2units	
7. Course administrator's name (mention all, if more than one name)	
<p>Name: Ass. Prof. Dr. Hassan Faleeh Farhan Email: dent.hasan.faleeh@uobabylon.edu.iq Name: lec. Dr. Duha Malek Hasan Email: den129.duha.malik@uobabylon.edu.iq Name: Lec. Zahraa Mohamed Hussein Wais Email: Zahraa.Wais @uobabylon.edu.iq</p>	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Introducing the importance of preventive dentistry and its applications for individuals and society, especially for widespread diseases such as tooth decay and gum disease, as well as with regard to nutrition and immune factors against oral and dental disease
9. Teaching and Learning Strategies	
Strategy	<p>Using various modern devices and equipment to deliver material to students as needed, including:</p> <p>Data show projector LCD screens Electronic boards Smart boards Live streaming through digital cameras</p>
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
16	1	Preventive dentistry	infection control	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
17	1	Preventive dentistry	Diet and dental caries	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
18	1	Preventive dentistry	Non-sweeteners sugar	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
19	1	Preventive dentistry	Dietary counseling in dental practice	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
20	1	Preventive dentistry	Nutrition and dental health	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
21	1	Preventive dentistry	Prevention of periodontal disease and oral cancer by nutrition	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
22	1	Preventive dentistry	Probiotics and dental health	theoretical lecture using PowerPoint	Short quizzes, mid-term

				software	exams, end-of-semester assessments, and final exams
23	1	Preventive dentistry	Diagnosis and prevention of dental erosion	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
24	1	Preventive dentistry	Prevention of malocclusion	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
25	1	Preventive dentistry	preventive measure for population with developmental disabilities	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
26	1	Preventive dentistry	Preventive treatment strategies for medically compromised populations	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
27	1	Preventive dentistry	Ozone in the prevention of dental diseases	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
28	1	Preventive dentistry	Geriatric dentistry	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

29	1	Preventive dentistry	Implant care	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams
30	1	Preventive dentistry	Protection of the dentition	theoretical lecture using PowerPoint software	Short quizzes, mid-term exams, end-of-semester assessments, and final exams

11. Course Evaluation

Number	Assessment Measurement	Score distribution
1	second semester mid exam 40 %	20% Clinical requirement 20% Written exam
2	Second semester final exam 60 %	40% Written exam 20% Practical exam
Total	100 %	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> The prevention of oral disease by Murry JJ NunnJH . and Steele JG fourth edition, 2003. Primary Preventive Dentistry by Harris NO GarciaGodoyF-NatheCN 7th Ed. (2008). Textbook of Cariology by Fejerscov and Thylstryp 1996 5-Principles and practice of public health dentistry by Krishna M and DasarPL.2010.
Main references (sources)	<ul style="list-style-type: none"> Essential of dental caries the disease and its management by Kidd E third edition (2005). Community dentistry by Sikri V and Sikri P 2008. Text book of preventive and social - medicine. Gupta M. and Mahajan BK.3rd edition, 2003. <p>Dentistry, dental practices and community. Striffler D, Young W., edition 1999.</p>

Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none"> • Oral health & preventive dentistry. Journal of International Society Preventive and Community Dentistry
Electronic References, Websites	<ul style="list-style-type: none"> • American Association of Public Health Dentistry. https://www.aaphd.org/ • International Society of Preventive and Community Dentistry. https://www.jispcd.org/