جامعة البيان

Academic Program Description

Al-Bayan University

College of Dentistry

2023 - 2024

Dentistry College

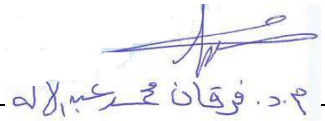
March 2024

University	Al-Bayan University
Faculty/Institute	College of Dentistry
Scientific Department	
Academic/Professional Program Name	Dentistry and oral surgery
Final Certificate Name	Bachelor in Dentistry
Academic System	Annual
Description Preparation Date	2023-2-24
File Completion Date	2023-2024

Head of Department			**Scientific Associate**	
Signe			**Signe**	
Name			**Name**	Prof. Dr. Athraa Mustafa Salih
Date			**Date**	2-4-2024

This File has been checked by Quality Assurance and University Performance

Director of Quality Assurance and University Performance Department

Head of Quality Assurance Section			
Signe			
Name			ا م د مضر محمد باقر السنبلي
Date	2-4-2024		
			Approval of the Dean

1. Program Vision

Leadership in education and scientific research at the national and global levels, keeping pace with modern technologies, artificial intelligence, and the quality of oral and dental health care.

2. Program Mission

The College of Dentistry believes that oral health is an integral part of public health and seeks to improve the quality of life in society through its advanced educational programs and harnessing artificial intelligence skills and seeks to graduate a new generation of inspiring dentists who possess high professional ethics.

3. Program Objectives

1. Providing distinguished educational programs that ensure the development of students with high skills and strong professional ethics.
2. Supporting scientific research and innovation to develop treatments and technologies used in the field of dentistry, in addition to providing high-quality health care to patients.
3. Enhancing the effectiveness of the educational process by using modern technology, represented by artificial intelligence and software for diagnosis and treatment, and achieving sustainable development concepts.
4. Promoting communication and understanding between students and community members from different cultures and adhering to the values of social justice and equality.

4. The Program Accreditation

N/A

5. Other External Influences

N/A

6. Program Structure

Course Structure	Number of Courses	Credit Units	(%)	Reviews
Institutional Requirements	*4*	*8*	*3.7*	*primary*
College Requirements	*43*	*210.5*	*96.3*	*Primary*
Department Requirements				
Summer Training	*14*	*78*		*primary*
Other				

7. Program Description

Year / Level	Course Code	Course Name	Credit Hours	
			Theoretical	Practical
1st	050105	General human anatomy	1	2
	050102	*Biology*	2	2
	050103	*Medical Physics*	2	2
	050104	*Medical Chemistry*	2	2
	050106	*Computer Science*	1	2
	050107	*Arabic Language*	2	*none*
	050108	*English Language*	*2*	*None*
	050109	*human rights*	*2*	*None*
	050101	Dental Anatomy	4	2
2nd	050206	General human anatomy	1	2
	050204	*General histology*	*2*	2
	050205	*General Physiology*	*2*	2
	050207	*Biochemistry*	*2*	*2*
	050208	*Baath Party Crimes*	*2*	*none*
	050201	Prosthetic Dentistry	2	4
	050202	Dental Material	2	2
	050203	al Histology and Embryology	4	2
3rd	050303	Oral surgery	1	2
	050305	*Pharmacology science*	*2*	2
	050306	*General pathology*	*2*	2
	050307	*Medical Microbiology*	*2*	2
	050301	Prosthetic Dentistry	2	2
	050302	Conservative Dentistry	4	4
	050304	Community Dentistry	2	2
	050308	Radiology	2	2
4th	050403	Oral surgery	1	4
	050408	General surgery	1	2.5
	050404	Periodontics	1	3

	050406	Oral pathology	2	3
	050407	*General Medicine*	*2*	2
	050401	Prosthetic Dentistry	2	6
	050402	Conservative Dentistry	2	6
	050405	Orthodontics	2	5
	050409	Pediatric Dentistry	2	None
5th	050503	Oral surgery	1	6
	050507	Periodontics	1	3
	050509	Graduation Project	2	None
	050501	Prosthetic Dentistry	2	6
	050502	Oral medicine	2	2.5
	050504	Orthodontics	2	4
	050505	Pediatric Dentistry	2	1.25
	050506	Preventive Dentistry	2	1.25
	050508	Conservative Dentistry	2	6

8. Expected learning outcomes of the program

➔ Knowledge

Outcome Learning 1 Understanding the anatomical structure of the skeletal framework of the head and skull.

Outcome Learning 2 Understanding the anatomy of soft tissues (muscles, nerves, and blood vessels) of the head and neck.

Outcome Learning 3 Understanding the principles of oral surgery and local anesthesia.

Understanding general diseases and their impact on oral surgery, methods of dealing with them, and familiarizing with general surgical principles and emergency procedures.
Understanding gum diseases and their surgical and non-surgical treatment methods.

Outcome Learning 4 Understanding facial and jaw diseases and injuries, methods of treatment, tooth extraction, dental implants, and minor surgical procedures an understanding oral diseases

Outcome Learning 5 Formulating information in a way that enables students to understand and comprehend it.
Increasing students' knowledge of oral examination and treatment methods.
Empowering students to recognize and make diagnostic judgments on cases associated with removable and fixed prosthetic appliances and their clinical treatment methods.
Empowering students to treat all age groups, including children and the elderly.

➔ Outcome Learning 5

Outcome Learning 6 Familiarity with the anatomy of the head and neck (both skeletal and soft tissues).

Outcome Learning 2 Understanding the principles of oral surgery and local anesthesia.

Outcome Learning 3 Ability to diagnose gum diseases and conditions surrounding the teeth and provide treatment and diagnosing other oral diseases and their treatment.

Outcome Learning 4 Capability to safely perform tooth extractions and minor surgical procedures in the mouth, as well as familiarity with dental implant techniques.

Outcome Learning 5 Understanding general surgical fundamentals and managing emergency cases.
Acquiring experience and information that will help in identifying the disease and knowing its causes

Enabling students to acquire the skills of making appropriate decisions for disease cases
Methods of examining and treating tooth decay and endodontic treatments for children and adults
Enabling students to make fixed and removable dental prosthetics .

➔ Values

Outcome Learning 1 Emphasizing ethics in patient interactions.

Outcome Learning 2 Emphasizing ethics in student interactions with their peers.

9. Teaching and Learning Strategies

A- Knowledge and Understanding:

1. Empowering students to acquire and comprehend the fundamental principles of anatomy, oral surgery, and gum diseases.
2. Equipping students with the ability to document patients' general medical history.
3. Enabling students to possess self-learning skills to acquire new information and expertise within the field.
4. Empowering students to act in response to any patient-related incidents during work.

B- Subject-specific Skills:

1. Presenting brainstorming questions that enable students to link study materials together and relate them to medical and health reality.
2. Developing skills in conducting motivational interviews to encourage patients to adopt preventive measures, adhere to treatment, and follow post-operative instructions.

C- Thinking Skills:

1. Encouraging students through expressive communication, thinking speed, and responsiveness.
2. Prompting students to problem-solving and fostering distinctive thinking.
3. Engaging lectures through student interaction and brainstorming.
4. Discussing medical cases and how to handle them.

D- General and Transferable Skills (Other skills related to employability and personal development):

1. Professional preparation and urging students toward positive behavior in their personal lives.
2. Scientific preparation and encouraging students to communicate in other scientific fields.
3. Cultural preparation and refining students' personalities.
4. Employing acquired skills to enable students to become dentists capable of performing various minor surgeries.

E- Teaching and Learning Methods:

1. Lectures using data show and PowerPoint presentations.
2. Educational films.

3. Display screens.
4. E-learning.
5. Whiteboards.
6. Student group discussions.
7. Patient reception and treatment in clinics.

10. Evaluation Methods

1. Daily quizzes for theoretical subjects.
2. Oral questions.
3. Midterm examination.
4. Final examination.

11. Faculty

Faculty Members

Titles	Specialization		Special Requirements/Skills	Numbers	
	General	Special		Staff	Lec
Prof.	*Medicine and general surgery*	*General surgery*		*1*	
Ass. Prof	Dentistry and Oral Surgery	*Maxillofacial Surgery*		*1*	
Ass. Prof.	Dentistry and oral surgery	*periodontics*			1
Lecturer Dr.	Dentistry and oral surgery	*Maxillofacial Surgery*		*2*	
Ass. Lecturers	Dentistry and oral surgery	*Oral surgery*		*2*	
Ass. Lecturers	Dentistry and oral surgery	*Periodontics*		*2*	
Teacher	Dentistry and oral surgery	*Oral pathology*			*1*
Prof. Dr.	*Animal Physiology*	*Cell Physiology*		*1*	
Ass. Prof	*Medicine*	*Medicine*			*1*
Ass. Prof	*Computer Tech.*				*1*
Lecturer	*Technical Biology*	*Technical Biology*		*1*	
Lecturer	*Biology*	*Microbiology*		*1*	
lecturer	*Pharmacy*	*Clinical Pharmacy*		*1*	
Asst. Lecture	*Biology*	*Histology*		*1*	
Asst. Lecture	*Arabic Language*	*Arabic Language*		*1*	
Asst. Lecture	*Biology*	*Microbiology*		*1*	
Asst. Lecture	*Medical Physics*	*Medical Physics*		*1*	
Asst. Lecture	*Chemistry*	*Biochemistry*		*3*	

Asst. Lecture	*English Language*	*English Language*		*1*
Asst. Lecture	*Law*	*Law*		*1*
Prof.Dr	Bachelor of Dental Surgery (BDS)	*Preventive Dentistry*	*1*	
Ass. Prof Dr.	Bachelor of Dental Surgery (BDS)	Orthodontics		1
Ass. Prof Dr.	Bachelor of Dental Surgery (BDS	Prosthetics dentistry		*1*
Lecturer	Bachelor of Dental Surgery (BDS)	Prosthetics dentistry	**1**	**2**
Lecturer Dr	Bachelor of Dental Surgery (BDS)	*Oral Medicine*	*2*	
Ass. Lecturer	Bachelor of Dental Surgery (BDS)	Prosthetics dentistry	*2*	*2*
Ass. Lecturer	Bachelor of Dental Surgery (BDS)	Orthodontics	*2*	
Ass. Lecturer	Bachelor of Dental Surgery (BDS)	Radiology	*1*	*1*
Ass. Lecturer	Bachelor of Dental Surgery (BDS)	Conservative dentistry	*5*	*1*
Ass. Lecturer	Bachelor of Dental Surgery (BDS)	Pediatric Dentistry	*1*	
Ass. Lecturer	Bachelor of Dental Surgery (BDS)	Preventive Dentistry	*1*	

Professional Development

Mentoring New Faculty Members

Guiding new instructors to prioritize continuous education and attending workshops and seminars within their specialization, and encouraging them to benefit from the experiences of senior instructors in all aspects related to the teaching process.

Professional Development for Faculty Members

Emphasizing the importance of continuous education and attending workshops and seminars within the specialization field to keep up with developments.

12. Acceptance Criteria

Admission will be centralized through the Ministry of Higher Education and Scientific Research, relying on the student's grades in the scientific stream of the sixth year, following the completion of the electronic application form.

13. The most important Sources of Information about the Program

1. *Snell's clinical anatomy 10th edition*
2. *Netter's head and neck anatomy 3ed edition*
3. *Gray's anatomy for students 4th edition*
4. *Atlas of clinical and gross anatomy 2nd edition*
5. *Carranza's Clinical Periodontology*
6. *lindhe 2015*
7. *Newman_and Carranza's Clinical_Periodontology*
8. *Clinical periodontology*
9. *Periodontal 2000*
10. *Dental management of medically compromised patient 9th edit.*
11. *Contemporary Oral and Maxillofacial Surgery 7th edit.*
12. *Baily and Love's short practice of surgery 25th edition 2008.*
14. *Schwarz principles of surgery.*
15. *Misch's Contemporary Implant Dentistry 4th Edition - October 1, 2019*
16. *Oral and maxillofacial pathology. Brad Neville, Douglas Damm Carl Allen and Jerry Bouquot. 4 th edition. 2016, Elsevier..*

17. Essentials of physiology for Dental Students. K Sembulingam
18. A TEXTBOOK OF PRACTICAL PHYSIOLOGY. CL Ghai
19. Davidsons principles and practice of medicine
20. Physics of the human body (Irving Herman)
21. Handbook of basic general histology (author:datis kalali)
22. Lippincott Pharmacology 8th Edition
23. Principles of Biology
24.Lippincott's Illustrated Reviews: Biochemistry" Denise R. Ferrier Robin,s Basic Pathology
25.Microsoft® Computer Basics Student Edition Complete 2003

14. Program Development Plan

- *Developing the scientific and administrative staff responsible for implementing the scientific program through annual evaluation files that reveal strengths and weaknesses.*
- *Conducting evaluative studies related to the development and improvement of the performance of senior leadership and faculty members.*
- *Regular and serious review of scientific curricula, ensuring the inclusion of all updates and developments in the field of specialization.*
- *Providing advice and guidance on what the institution should do to strive for excellence in full compliance with accreditation standards.*
- *Utilizing the latest devices in diagnosis and treatment and keeping up with scientific advancements.*
- *Striving to develop and refine the necessary skills to reach the summit through acquired knowledge during theoretical studies and continuous education by seeking updates through books and electronic libraries.*
- *Proposing strategies, plans, and executive policies to ensure quality and accreditation.*

Program Skills

Year/Level	Course Code	Course Title	Primary or Optional	Learning Outcomes Required from the Program														
				Knowledge						Skills					Values			
				A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B4	C1	C2	C3	C4
1st	050105	General human anatomy	primary	X						X						X		
2nd	050206	General human anatomy	primary		X					X						X		
3rd	050303	Oral surgery	primary			X					X					X		
4th	050403	Oral surgery	primary				X						X		X	X		
	050408	General surgery	primary				X							X		X		
	050404	Periodontics	primary					X				X			X	X		
	050406	Oral pathology	primary						X			X				X		
5th	050503	Oral surgery	primary						X				X		X	X		
	050507	Periodontics	primary					X				X			X	X		

Program Skills																	
				Learning Outcomes Required from the Program													
Year/Level	Course Code	Course Title	Primary or Optional	Knowledge				Skills				Values					
				A 1	A 2	A 3	A 4	B 1	B 2	B 3	B 4	C 1	C 2	C 3	C 4		
1st	050102	*Biology*	*Primary*	√				√					√				
	050103	*Medical Physics*	*Primary*	√						√	√		√				
	050104	*Medical Chemistry*	*Primary*	√						√	√		√				
	050106	*Computer Science*	*Primary*		√					√	√		√				
	050107	*Arabic Language*	*Primary*							√	√		√				
	050108	*English Language*	*Primary*							√	√		√				
	050109	*human rights*	*Primary*										√				
2nd	050204	*General histology*	*Primary*			√			√				√				
	050205	*General Physiology*	*Primary*			√			√				√				
	050207	*Biochemistry*	*Primary*			√			√				√				
	050208	*Baath Party Crimes*	*Primary*										√				

3rd	*050305*	*Pharmacology science*	*Primary*			√	√			√
	050306	*General pathology*	*Primary*			√	√			√
	050307	*Medical Microbiology*	*Primary*			√	√			√
4th	*050407*	*General Medicine*	*Primary*	√			√	√		√
5th	*05050 9*	*Graduation project*	*Primary*							

Program Skills

Learning Outcomes Required from the Program

Year/ Level	Course Code	Course Title	Primary or Optional	Knowledge				Skills				Values			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
1st	050101	Dental Anatomy	Primary	✓				✓				✓			✓
2nd	050201	Prosthetic Dentistry	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	050202	Dental Material	Primary	✓								✓			
	050203	Oral Histology and Embryology	Primary	✓								✓			
3rd	050301	Prosthetic Dentistry	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	050302	Conservative Dentistry	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	050304	Community Dentistry	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	050308	Radiology	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4th	050401	Prosthetic Dentistry	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	050402	Conservative Dentistry	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	050405	Orthodontics	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	050409	Pediatric Dentistry	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Program Skills

5th	050501	Prosthetic Dentistry	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	050502	Oral medicine	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	050504	Orthodontics	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	050505	Pediatric Dentistry	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	050506	Preventive Dentistry	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	050508	Conservative Dentistry	Primary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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Course Description (1)

1. Course Title	**General Medicine**
2. Course Code	050407
3. Semester/Year	**Year**
4. Description Preparation Date	**2023/2024**
5. Available Attendance Form	**Theoretical and practical lectures**
6. No. of Hours (Total)	**30 hours theory/30 hours clinic al**
7. No. of Credits (Total)	**4.5**
8. Course Administrator Name	**Dr.Ahmed Turki Hani**
9. E-mail	**Ahmed.t@albayan.edu.iq**

10. Course Objectives

1- Provide the students with the basic sciences of the general medicine.
2- Enable the students to understand the most important diseases like Gastroenterology, Cardiology, Oncology, Hematology, Endocrinology, Dermatology, Neurology, Rheumatology and Pulmonology.
3- Recognize the students with the etiology and clinical features of important medical diseases.
4- Provide the students with the Practice in basic theoretical skills, such as history taking and recognition of diseases in general and specifically medical emergencies which might be encountered in the dental clinic.
5- Train the student to improve their attitudes that foster patient centered care and support the firs standards of the medical profession.

Knowledge	**A1**	Demonstrate the anatomical, biological, histological, and physiological princip related to general health, oral health, disease processes, immunity and the der material sciences, their applications and manipulations and the concepts relatec all branches of dentistry.
	A2	Determine the principles of health promotion, disease prevention, the curr infection control procedures and their scientific basis and show the knowledge a understanding of the organization and provision of health care in the community a in hospital.
	A3	Recognize the etiology, clinical features, diagnostic approaches, complicatio treatment, prevention, and management of common medical diseases.
	A4	
Skill	**B1**	Diagnose and analyze the clinical problems of the oral cavity and paraoral structu and create a proper treatment plan.

	B2	Collect and integrate information from number of resources to gain a coher understanding of theory and practice and interpret the evidence to understa practice of clinical dentistry.
	B3	Integrate the results of history, physical examination, laboratory tests, imag investigations and provide a plan for the management and discharge of patients w common medical disorders.
	B4	
Values	**C1**	Practice the practical and clinical skills in all branches of dentistry, working saf in clinical environment that reflect skilled competent, safe, evaluative clini dentistry practice.
	C2	Manage the patient effectively and safely with continual analysis and evaluation outcomes and appropriate modification of intervention.
	C3	Manage the patient correctly during dental procedure and make consultation w specialists when required with continual analysis and evaluation of patient hea status.
	C4	

11. Teaching and Learning Strategies

1.	**Lectures**	**4.**	**Dialogue and discussion**
2.	**Problem based learning**	**5.**	**Brain storming**
3.	**Self-learning**	**6.**	

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12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	1	Introduction, etiolo pathogenesis,	Diabetes Mellitus 1	Data show and whi board	Homework and quiz
2	1	clinical manifestatio management.	Diabetes Mellitus 2	Data show and wl board	Homework and quiz
3	1	Introduction, etiolo pathogenesis,	White Blood Cells Disorders 1	Data show and wl board	Homework and quiz
4	1	clinical manifestatio management	White Blood Cells Disorders 2	Data show and white boarc	Homework and quiz
5	1	Introduction, etiolo pathogenesis,	Hemostasis and Bleeding Disorders 1,	Data show and wl board	Homework and quiz
6	1	clinical manifestatio management	Hemostasis and Bleeding Disorders 2	Data show and wl board	Homework and quiz
7	1	Introduction, etiolo pathogenesis,	Adrenal Gland Disorders 1	Data show and wl board	Homework and quiz
8	1	clinical manifestatio management	Adrenal Gland Disorders 2	Data show and wl board	Homework and quiz
9	1	Introduction, etiology,	Gastrointestinal Diseases	Data show and wl board	Homework and quiz
10	1	pathogenesis,	Peptic Ulcer Disease 1	Data show and wl board	Homework and quiz
11	1	clinical manifestatio management	Peptic Ulcer Disease 2	Data show and wl board	Homework and quiz
12	1	Introduction,	Intestine	Data show and wl board	Homework and quiz
13	1	etiology, pathogenesis,	Inflammatory Bowel Disease 1	Data show and wl board	Homework and quiz

14	1	clinical manifestatio management	Inflammatory Bowel Disease 2	Data show and wl board	Homework and quiz
15	1	Introduction, etiolo pathogenesis, clini manifestations, management	Pseudomembranous Colitis	Data show and wl board	Homework and quiz
16	1	Introduction, etiolo pathogenesis, clini manifestations, management	Hypertension	Data show and wl board	Homework and quiz
17	1	Introduction, etiolo pathogenesis, clini manifestations, management	Infective Endocarditis	Data show and wl board	Homework and quiz
18	1	Introduction, etiolo pathogenesis, clini manifestations, management	Ischemic Heart Disease	Data show and wl board	Homework and quiz
19	1	Introduction, etiolo pathogenesis, clini manifestations, management	Heart Failure	Data show and wl board	Homework and quiz
20	1	Introduction, etiolo pathogenesis, clini manifestations, management	Cardiac Arrhythmias	Data show and wl board	Homework and quiz
21	1	Introduction, etiolo pathogenesis, clini manifestations, management	Thyroid Diseases	Data show and wl board	Homework and quiz
22	1	Introduction, etiolo pathogenesis, clini manifestations, management	Kidney Diseases	Data show and wl board	Homework and quiz
23	1	Introduction, etiolo pathogenesis, clini manifestations, management	Immunologic Diseases	Data show and wl board	Homework and quiz
24	1	Introduction, etiolo pathogenesis, clini manifestations, management	Liver Diseases	Data show and wl board	Homework and quiz

25	1	Introduction, etiolo pathogenesis, clini manifestations, management	Pulmonary Diseases	Data show and wl board	Homework and quiz
26	1	Introduction, etiolo pathogenesis, clini manifestations, management	Red Blood Cells Disorders	Data show and wl board	Homework and quiz
27	1	Introduction, etiolo pathogenesis, clini manifestations, management	Drug and Alcohol Abuse	Data show and wl board	Homework and quiz
28	1	Introduction, etiolo pathogenesis, clini manifestations, management	Psychiatric Disorders	Data show and wl board	Homework and quiz
29	1	Introduction, etiolo pathogenesis, clini manifestations, management	Anxiety and Eating Disorders	Data show and wl board	Homework and quiz
30	1	Introduction, etiolo pathogenesis, clini manifestations, management	Neurologic Disorders	Data show and wl board	Homework and quiz
		Assessment Curriculum			

13. Course Evaluation
توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ

14. Learning & Teaching Resources	
Required textbooks (curricular if any)	**Davidsons principles and practice of medicine**
Main References (sources)	**Cecil's essentials of medicine**
Recommended Books & References (Scientific Journals, Reports …)	
Websites or Electronic References	

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Course Description (1)

1. Course Title	**Medical chemistry**
2. Course Code	**050104**
3. Semester/Year	**year**
4. Description Preparation Date	**2023-2024**
5. Available Attendance Form	**Lectures and laboratories**
6. No. of Hours (Total)	**60 hours lectures** **60 hours labs**
7. No. of Credits (Total)	
8. Course Administrator Name	**Aya mohammed saadoun**
9. E-mail	**Aya.m@albayan.edu.iq**

10. Course Objectives

Knowledge	**A1**	**Preparing dental students to be fully aware of the importance of biochemistry and connection with dentistry**
	A2	**studying the percentage of essential minerals in visceral and structural structures**
	A3	**studying some chemical reactions within the body of a living organism in order for outputs to fit the needs of the labor market and keep pace with scientific a technological developments in the field of laboratory techniques**
	A4	**medical devices that our contemporary world is witnessing, with the aim of bring the graduate to the required level to contribute to advancing the wheel of developm and playing his role in achieving comprehensive renaissance in all fields of work**
Skills	**B1**	**Motivating the student through the style of expression and thinking and the speed of communication and response**
	B2	**Urging the student to solve problems and possess distinctive thinking**
	B3	**The lecture depends on student interaction and brainstorming**
	B4	**Conducting home tests**
Values	**C1**	**Daily and quarterly exams for theoretical subjects**
	C2	**Mid-year exam**
	C3	**Final exam**
	C4	**Delivering seminars**

11. Teaching and Learning Strategies

1.	**Lectures using data show and power point**	**4.**	**E-learning**
2.	**Educational films**	**5.**	**Smart boards**
3.	**Display screens**	**6.**	**Educational laboratories**

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12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	2	**Acid, Base and Salt**	**Introduction of acid base**	Data show presentation and white board	quiz
2	2	**salts, preparation of salts**	**How to prepare salts**	Data sh presentation a white board	Quiz
3	2	**Fluid and electrolyte**	**Study the electrolyte solutions**	Data sh presentation a white board	Quiz
4	2	**Buffer-pH and Acid-B Balance**	**Study the buffer solutions**	Data show presentation a white board	Quiz
5	2	**acid-base balance and bl pH**	**Knowledge the PH of blood**	Data sh presentation a white board	Quiz
6	2	**Colloids**	**Colloids and colloidal dispersions**	Data sh presentation a white board	Quiz
7	2	**Chirality**	**Chirality atom and its importance biological**	Data sh presentation a white board	Quiz
8	2	**concentration**	**preparation of solutions**	Data sh presentation a white board	Quiz
9	2	**Pollution**	**Knowledge the pollution and ways get**	Data sh presentation a white board	Quiz

10	2	**Radiochemistry**	**Study the radioactive materials**	Data presentation sh a white board	Quiz
11	2	**Alkanes and Cycloalkanes**	**Knowledge the aliphatic and cy compound**	Data presentation sh a white board	Quiz
12	2	**Alkenes and Alkynes**	**Study the preparation of alkane, alke and reactions of them**	Data presentation sh a white board	Quiz
13	2	**Aromatic compounds**	**Naming of aromatic compound a reactions of them**	Data presentation sh a white board	Quiz
14	2	**Aromatic compounds Nature**	**Study the aromatic compound and benefit**	Data presentation sh a white board	Quiz
15	2	**Stereoisomers of Carbon**	**Knowledge the stereoisomers carbon**	Data presentation sh a white board	Quiz
16	2	**Stereoisomers chemistry**	**Diastereomers**	Data presentation sh a white board	quiz
17	2	**Alcohols, Phenols, Ethers a Thiols (preparation, reactio**	**Preparations and reactions**	Data presentation sh a white board	quiz
18	2	**Carboxylic Acids And Th Derivatives , part 1**	**Study t Study the derive of carboxy acid (1)**	Data presentation sh a white board	quiz
19	2	**Carboxylic Acids And Th Derivatives , part 2**	**Study the derive of carboxylic acid (2)**	Data presentation sh a white board	Quiz

20	2	**Aldehydes and ketones**	**Naming of aldehydes, ketones a prepare them**	Data sh presentation a white board	quiz
21	2	**Carbohydrates**	**Introduction of carbohydrate**	Data sh presentation a white board	quiz
22	2	**Monosaccharide's**	**Study the composition of it**	Data sh presentation a white board	quiz
23	2	**Disaccharides Carbohydra and oral health**	**Knowledge the Disaccharides and the effective of mouth**	Data sh presentation a white board	quiz
24	2	**Lipids**	**Introduction of lipids**	Data sh presentation a white board	quiz
25	2	**Derived lipids**	**The role of lipids in teeth diseases**	Data sh presentation a white board	quiz
26	2	**Proteins**	**Introduction of proteins**	Data sh presentation a white board	quiz
27	2	**Amino acids**	**Effects of protein on oral health**	Data sh presentation a white board	Quiz
28	2	**Nucleic Acids**	**Study the effects of protein on the mou**	Data sh presentation a white board	quiz
29	2	**Nucleosides, Nucleotides**	**Study the composition of Nucleosic Nucleotides**	Data sh presentation a white board	quiz

30	2	**Dioxy and ribo Nucliec acids**	**Knowledge theDioxy and riboxy Nucl acids**	Data sh presentation a white board	quiz

13. Course Evaluation	
توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ	
14. Learning & Teaching Resources	
Required textbooks (curricular if any)	**Lippincott, basic of organic chemistry, stereochemistry of organic compounds,**
Main References (sources)	
Recommended Books & References (Scientific Journals, Reports …)	
Websites or Electronic References	

جامعة البيان

Course Description (1)

1. Course Title	**Biology**
2. Course Code	**050102**
3. Semester/Year	**Year**
4. Description Preparation Date	**2023-2024**
5. Available Attendance Form	**Lectures+ Labs**
6. No. of Hours (Total)	**60 hours Lectures** **60 hours labs**
7. No. of Credits (Total)	**6**
8. Course Administrator Name	**Name: A.L Amna Kahtan Khalaf**
9. E-mail	**amna.k@albayan.edu.iq**

10. Course Objectives

Knowledge	**A1**	**The first stage aims to provide all that the student needs of solid theoretical curric and practical applications**
	A2	**outputs to be compatible with the needs of the labor market**
	A3	**keep pace with scientific and technological developments in the field of laborat techniques and medical devices that our contemporary world is witnessing**
	A4	**the aim of bringing the graduate to the required level to contribute to advanc development and playing his role in achieving comprehensive renaissance in all ar of work.**
Skills	**B1**	**Applications contribute to medical Biology in all aspects of our daily lives**
	B2	**including the medical field, diagnostic devices.**
	B3	**Study the structure, function and formation of this field in human body system**
	B4	**The diseases related to human body systems including their treatments**
Values	**C1**	**the development of modern devices,**
	C2	**the study of Biological devices and its effect on the human body and the physi functions of the human body's organs.**
	C3	
	C4	

11. Teaching and Learning Strategies

1.	**A- Knowledge and understanding** **The teaching method changes according to the student's perception and interaction with the lecture. It may be the discussion method, the interrogation method, or the deduction**	**4.**	**General and transferable skills (other skills related to employability and personal development).** **1- Professional preparation and encouraging the student to have positive behavior in his public life**

	and deduction method... and it may be all methods at the same time, in addition to the use of laboratories to increase the student's understanding and awareness.		**2- Scientific preparation and urging the student to communicate in other fields of science** **3- Cultural preparation and refining the student's personality.** **Utilizing the acquired skills so that the student becomes a dentist capable of understanding the physical functions of the organs of the human body.**
2.	**Subject-specific skills** **1- - Lectures and discussion to consolidate ideas** **2- Experiments, laboratories, and preparing bottles** **Performing seminars to consolidate information and strengthen the student's educational and intellectual potential.**	**5.**	**Teaching and learning methods** **1- Lectures using data show and power point** **1- Educational films** **2- Display screens** **3- E-learning** **4- Laboratories and preparing reports** **5- Homework**
3.	**C- Thinking skills** **1- Motivating the student through the method of expression, thinking and response** **2- Urging the student to solve problems and possess distinctive thinking** **3- The lecture relies on student interaction, brainstorming, and intellectual questions** **4- Giving the student the necessary space to express their scientific opinions** **5- Laboratory reports** **Homeworks**	**6.**	**Evaluation methods** **1- Daily and quarterly exams for theoretical subjects** **2- Seminars** **3- Daily evaluation** **4- Preparing and submitting laboratory reports** **5- Mid-year exam** **6- A final practical and theoretical exam**

جامعة البيان

12. The Structure of the Course

Week	Hours	RLOs	Topic/Subject Name	Learning Method	Evaluation Method
1	2	Introduction to Medical and oral Biology	Introduction to Medical and oral Biology	Data Show and white boar	Oral Quiz
2	2	Prokaryotes and Eukaryotes	Prokaryotes and Eukaryotes	Data Show and white boar	Oral Quiz
3	2	General and oral Immunity	General and oral Immunity	Data Show and white boar	Oral Quiz
4	2	Bacteria and oral disease	Bacteria and oral disease	Data Show and white boar	Oral Quiz
5	2	Genetics and its role oral disease	Genetics and its role oral disease	Data Show and white boar	Oral Quiz
6	2	Simple Epithelial tissue (Tongue)	Simple Epithelial tissue (Tongue)	Data Show and white boar	Oral Quiz
7	2	Stratified epithelial tissue	Stratified epithelial tissue	Data Show and white boar	Oral Quiz
8	2	Glandular epithelial tissue (salivary gland)	Glandular epithelial tissue (salivary gland)	Data Show and white boar	Oral Quiz
9	2	General connective tissue (blood)	General connective tissue (blood)	Data Show and white boar	Oral Quiz
10	2	Muscular tissue	Muscular tissue	Data Show and white boar	Oral Quiz
11	2	Nerve tissue	Nerve tissue	Data Show and white boar	Oral Quiz
12	2	Cell structure (oral mucus membrane)	Cell structure (oral mucus membrane)	Data Show and white boar	Oral Quiz
13	2	Plasma membrane structure	Plasma membrane structure	Data Show and white boar	Oral Quiz

14	2	Passage of Materials across C Membrane	Passage of Materials across C Membrane	Data Show and white boar	Oral Quiz
15	2	Cell cycle	Cell cycle	Data Show and white boar	Oral Quiz
16	2	Mitosis and Meiosis	Mitosis and Meiosis	Data Show and white boar	Oral Quiz
17	2	Cell energy	Cell energy	Data Show and white boar	Oral Quiz
18	2	Nucleic acid, DNA and RNA	Nucleic acid, DNA and RNA	Data Show and white boar	Oral Quiz
19	2	Introduction to parasitology	Introduction to parasitology	Data Show and white boar	Oral Quiz
20	2	Types of parasites and host	Types of parasites and host	Data Show and white boar	Oral Quiz
21	2	General and oral protozoa	General and oral protozoa	Data Show and white boar	Oral Quiz
22	2	Human *amoebas,E. histolyti E.coli, E.gingivali*	Human *amoebas,E. histolytica, E.c E.gingivali*	Data Show and white boar	Oral Quiz
23	2	Flagellates, *Giardia lamblia, Trichomonas tenax, T.hominas, T.vaginalis*	Flagellates, *Giardia lamblia, Trichomonas tenax, T.hominas, T.vaginalis*	Data Show and white boar	Oral Quiz
24	2	*Leishmania* , cutaneous and vesira	*Leishmania* , cutaneous and vesiral	Data Show and white boar	Oral Quiz
25	2	Sporozoa, *Plasmodium spp.*	Sporozoa, *Plasmodium spp.*	Data Show and white boar	Oral Quiz
26	2	*Toxoplasma gondii*	*Toxoplasma gondii*	Data Show and white boar	Oral Quiz
27	2	Nemathelminthes,*Ascaris lumbricoides*	Nemathelminthes,*Ascaris lumbricoi*	Data Show and white boar	Oral Quiz
28	2	*Ancylostoma duodenale, Entrob vermicularis*	*Ancylostoma duodenale, Entrob vermicularis*	Data Show and white boar	Oral Quiz
29	2	Platyhelminthes, *Fasciola hepatic*	Platyhelminthes, *Fasciola hepatica*	Data Show and white boar	Oral Quiz
30	2	*Schistosoma spp.*	*Schistosoma spp.*	Data Show and white boar	Oral Quiz

13. Course Evaluation

Distribution of the score out of 100 according to the tasks assigned to the student, such as daily preparation, daily exams, oral, monthly, written and records.

14. Learning & Teaching Resources

Required textbooks (curricular if any)	Principles of Biology – An Introduction to Biological Concepts has been modified from several OpenStax textbooks including Concepts of Biology, Biology 2E, Microbiology and Anatomy and Physiology. These textbooks have been cited and attributed below
Main References (sources)	
Recommended Books & References (Scientific Journals, Reports …)	
Websites or Electronic References	**https://dept.clcillinois.edu/biodv/PrinciplesOfBiology.pdf**

جامعة البيان

Course Description (1)

1. Course Title	Arabic
2. Course Code	050107
3. Semester/Year	Seasonal / season1 and Season 2
4. Description Preparation Date	**2024/2023**
5. Available Attendance Form	Daily attendance according to the lecture schedule
6. No. of Hours (Total)	60 Hours
7. No. of Credits (Total)	**1**
8. Course Administrator Name	M.M. Khansa Saad Fajr
9. E-mail	Khansaa.s@albayan.edu.Iq

10. Course Objectives

The student should be familiar with the principles and rules of the Arabic languag

Knowledge	**A1**	The program aims to raise the student's ability to the level of understanding In the field of language
	A2	. Enabling students to obtain knowledge in the origins of speech and sentences.
	A3	Enabling students to obtain knowledge in ancient and modern poetry and prose and their types
	A4	
Skills	**B1**	Teaching the student how to become able to use eloquent linguistic methods
	B2	. Teaching the student to analyze understand, deduce, and employ the prescribed curriculum vocabulary,
	B3	: Students acquire the skill of writing sentences correctly
	B4	Students gain the ability to pronounce letters correctly

Values	C1	The skill of reading, criticizing and judging texts
	C2	The skill of verbal and written communication with others
	C3	The skill of researching linguistic and literary sources
	C4	Promoting scientific research in the field of the Arabic language and its sciences and preparing linguistic and literary studies and research

11. Teaching and Learning Strategies

1.	ELECTRONIC LECTures	**4.**	Theoretical lectures in the form of recitation
2.	Asking questions and opening the door to dialogue	**5.**	Summarizing lectures with emphasis on vocabulary
3.	Assigning the student to reports	**6.**	The mission

12. The Structure of the Course

Week	Hours	RLOs	Topic/Subject Name	Learning Method	Evaluation Method
1	1	Introduction to the Arabic language	uation marks	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	A quick session with the students at the end of the lecture
2	1	The student should be able to formulate behavioral goals and formulate a question that achieves the goal	How to write hamza	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
3	1	Know and understand	Sections of speech	Explanation of theoretical lectures from the teaching	Question within the lecture

				subject using modern teaching and presentation methods	
4	1	Identifying linguistic and literary problems among students	Original and subsidiary grammatical .signs	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Question within the lecture
5	1	Know and understand	Free poetry	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
6	1	Know and understand	The Inflected and Inflected form of verbs	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
7	1	Know and understand	The built and the Arabized are nouns	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
8	1	Know and understand	The adjective	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
9	1	Know and understand	Sections of the nominal and verbal sentence	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
10	1	Know and understand	Interrogative	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing

11	1	Know and understand	Passive verb	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
12	1	Know and understand	Active verb	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
13	1	Know and understand	Teacher	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
14	1	Identifying the role of motivation in the learning process, contemporary reading of linguistic and literary texts	Negation	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Asking questions and answering them from the student
15	1	Know and understand	Nazik al-Malaika	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
16	1	Know and understand	Jeweler	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
17	1	Know and understand	Ahmad Shawqi	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing

18	1	Know and understand	Present tense verb	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
19	1	Know and understand	Badr Shaker Sayyab	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
20	1	Know and understand	Accusative present tense verb	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
21	1	Know and understand	'The bound ta' and the open ta	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
22	1	Analyzing and explaining texts	Pendants	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
23	1	Know and understand	Literary texts	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
24	1	Know and understand	Correct and incorrect verbs	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
25	1	Know and understand	Modern poetic schools	Explanation of theoretical lectures from the teaching	Daily testing

				subject using modern teaching and presentation methods	
26	1	Know and understand	Emphasis	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
27	1	Know and understand	The art of eloquence	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
28	1	Know and understand	Ancient poetic arts	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
29	1	Know and understand	Dhaad and Dhaa	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing
30	1	Know and understand	Characteristics of literature	Explanation of theoretical lectures from the teaching subject using modern teaching and presentation methods	Daily testing

13. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly and written exams, reports, etc. Attendance and participation 10% Daily 10% Monthly exam 20% %60 Final grade 100%60Final exam

14. Learning & Teaching Resources

Required textbooks (curricular if any)	Methodical books/help books
Main References (sources)	Basic texts prepared by the subject teacher
Recommended Books & References (Scientific Journals, Reports …)	Reports/periodicals and scientific journals
Websites or Electronic References	International Information Network (Internet)

جامعة البيان

Course Description (1)

1. Course Title	**Biochemistry**
2. Course Code	**year**
3. Semester/Year	**2023-2024**
4. Description Preparation Date	
5. Available Attendance Form	**Lectures and laboratories**
6. No. of Hours (Total)	**60 hours lectures** **60 hours labs**
7. No. of Credits (Total)	**6**
8. Course Administrator Name	**Fatima Ghazi Talab**
9. E-mail	**Fatimma.gh@albayan.edu.iq**

10. Course Objectives

Knowledge	**A1**	**Preparing dental students to be fully aware of the importance of biochemistry a its connection with dentistry.**
	A2	**studying the percentage of essential minerals in visceral and structural structures,**
	A3	**And studying some chemical reactions within the body of a living organism in or for its outputs to fit the needs of the labor market and keep pace with scientific a technological developments in the field of laboratory techniques.**
	A4	**And medical devices that our contemporary world is witnessing, with the aim bringing the graduate to the required level to contribute to advancing the wheel development and playing his role in achieving comprehensive renaissance in fields of work.**
Skills	**B1**	**Knowledge and understanding**
	B2	**Gaining experience, information and developing skills**
	B3	**Increasing students' knowledge of biochemical sciences and their connection w dentistry**
	B4	**Learn how to assess the risks of patients contracting chronic diseases or infections and study them while conducting the necessary laboratory analyzes**
Values	**C1**	Daily and quarterly exams for theoretical subjects
	C2	Mid-year exam
	C3	final exam
	C4	Throwing seminars

11. Teaching and Learning Strategies

1.	**Lectures using data show and power point**	**4.**	**E-learning Educational laboratories**
2.	**Educational films**	**5.**	**Smart boards**
3.	**Display screens**	**6.**	**Homework assignments and preparing seminars**

جامعة البيان

12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	2				
2	2	**quiz**	**Data show and white board**	**Enzymes: Definiti Terminology, a Classification**	**Enzymes: Definiti Terminology, a Classification**
3	2	**Quiz**	**Data show and white board**	**Mechanism enzyme action**	**Mechanism of enzyme acti**
4	2	**Quiz**	**Data show and white board**	**Clinical significance enzyme assays**	**Clinical significance enzyme assays**
5	2	**Quiz**	**Data show and white board**	**Vitamins, definiti classification**	**Vitamins, definiti classification**
6	2	**Quiz**	**Data show and white board**	**Digestion a absorption carbohydrates, lipids, and protein**	**Digestion and absorption carbohydrates, lipids, a proteins**
7	2	**Quiz**	**Data show and white board**	**Chemistry carbohydrates**	**Chemistry of carbohydrate**
8	2	**Quiz**	**Data show and white board**	**Chemistry carbohydrates**	**Chemistry of carbohydrate**
9	2	**Quiz**	**Data show and white board**	**Metabolism Carbohydrates :p 2**	**Metabolism Carbohydrates :part 2**
10	2	**Quiz**	**Data show and white board**	**Carbohydrates metabolism regulation**	**Carbohydrates metaboli regulation**
11	2	Quiz	**Data show and white board**	**Chemistry Proteins and am**	**Chemistry of Proteins a amino acids**

				acids	
12	2	quiz	Data show and white board	Metabolism Proteins and am acids	Metabolism of Proteins a amino acids
13	2	quiz	Data show and white board	Metabolism Protein and am acid regulation	Metabolism of Protein a amino acid regulation
14	2	quiz	Data show and white board	Metabolism Protein and am acid inheri disorder	Metabolism of Protein a amino acid inherited disor
15	2	quiz	Data show and white board		Exam
16	2	quiz	Data show and white board	Lipid :definiti classification	Lipid :definiti classification
17	2	quiz	Data show and white board	Metabolism of Lip oxidation of Fa Acids	Metabolism of Lip oxidation of Fatty Acids
18	2	quiz	Data show and white board	Biosynthesis of Fa Acids	Biosynthesis of Fatty Acids
19	2	quiz	Data show and white board	Integration metabolism carbohydrates, lip and Proteins	Integration of metabolism carbohydrates, lipid, a Proteins
20	2	quiz	Data show and white board	Metabolism Purines a pyrimidines	Metabolism of Purines a pyrimidines
21	2	quiz	Data show and white board	Metabolism Purines a pyrimidines disor	Metabolism of Purines a pyrimidines disorder
22	2	quiz	Data show and white board	Nucleic Ac Definition a Protein synthesis	Nucleic Ac Definition and Prot synthesis
23	2	quiz	Data show and white board	Hormone definiti	Hormone definiti

				classification	**classification**
24	2	**quiz**	**Data show and white board**	**Hormone disorder**	**Hormone disorder**
25	2	**quiz**	**Data show and white board**	**Acid-base balance**	**Acid-base balance**
26	2	**quiz**	**Data show and white board**	**Trace eleme disorder**	**Trace elements disorder**
27	2	**quiz**	**Data show and white board**	**Salivary secretion(saliva), Pancreatic juice**	**Salivary secretion(saliv Pancreatic juice**
28	2	**quiz**	**Data show and white board**	**Electrolytes**	**Electrolytes**
29	2	**quiz**	**Data show and white board**	**Liver Function Te**	**Liver Function Test**
30	2	**quiz**	**Data show and white board**	**Study Kid Function Test**	**Kidney Function Test**
		quiz	**Data show and white board**	**Exam**	**Exam**

13. Course Evaluation

توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ

14. Learning & Teaching Resources

Required textbooks (curricular if any)	**Lippincott, basic of organic chemistry, stereochemistry of organic compounds,**
Main References (sources)	**Lippincott's Illustrated Reviews: Biochemistry "Denise R. Ferrier**
Recommended Books & References (Scientific Journals, Reports …)	**Marks' Basic Medical Biochemistry: A Clinical Approach" Michael A. Lieberman و Alisa Peet**
Websites or Electronic References	**"Biochemistry for Dental Students "D. C. Smith N. A. Smith و A. Duncan Reid**

جامعة البيان

Course Description (1)

1. Course Title	**General histology**
2. Course Code	**050204**
3. Semester/Year	**Year**
4. Description Preparation Date	**2023-2024**
5. Available Attendance Form	**Theoretical and practical lectures**
6. No. of Hours (Total)	**60 hours theory , 60 hours practical**
7. No. of Credits (Total)	**6**
8. Course Administrator Name	**A.L. Zainab Muayad Saber**
9. E-mail	**Zainab.m@albayan.edu.iq**

10. Course Objectives :

Learning outputs

The objectives of the course can be summarized as enabling Second-year students of the Dentistry College is Explaining the process of preparing tissue sections for different sections of the body and using optical microscopes to examine and distinguish different tissues and organs of the body.

Knowledge	**A1**	To teach students the practical and theoretical applications of the various general body tissues and all organs of the body, the General Tissue Laboratory looks forward to explaining the structures of the various tissues and organs of the body in several sections and directions, preparing tissue sections for different sections of the body and using light microscopes to examine and distinguish the various tissues and organs of the body.
	A2	
	A3	
	A4	
Skills	**B1**	1. Acquiring skills and information's that help the student in diagnosing and how to examine different histological slide sections.
	B2	Motivating the student through the expression style, thinking, and quick communicat and response.
	B3	Encouraging the student to solve problems and possess distinctive thinking.
	B4	Relying on student interaction and brainstorming in the lecture.
Values	**C1**	Professional preparation and promotion of positive behavior in public life
	C2	Scientific preparation and encouragement of students to communicate in other fields science.

	C3	Cultural preparation and refining of the student's personality.
	C4	Employing acquired skills for the student to become a dentist capable of Examin histological sections.

11. Teaching and Learning Strategies

1.	Lectures using Data show and power point.	**4.**	Electronic education
2.	Educational films	**5.**	Practical Examination of histological slides
3.	Monitors	**6.**	

جامعة البيان

12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	**2**		**Cells, Basic Tissue**	**Data show presentation and white board**	**Short quiz**
2	**2**		**Epithelial Tissue**	**Data show presentation and white board**	**Oral examination**
3	**2**		**Connective Tissue**	**Data show presentation and white board**	**Oral examination**
4	**2**		**Respiratory System: conduct portion**	**Data show presentation and white board**	**Oral examination**
5	**2**		**Respiratory System: respirat portion**	**Data show presentation and white board**	**1st term examination**
6	**2**		**Urinary System: kidney nephrc collecting tubules and ducts**	**Data show presentation and white board**	**Oral examination**
7	**2**		**Urinary System: ureter, urina bladder, and male and fem urethra**	**Data show presentation and white board**	**Oral examination**
8	**2**		**Integumentary System: Sk epidermis, dermis**	**Data show presentation and white board**	**Oral examination**
9	**2**		**Integumentary System: skin glan hair, and nails**	**Data show presentation and white board**	**Oral examination**
10	**2**		**Hemopoiesis: bone marrow**	**Data show presentation and white board**	**Oral examination**
11	**2**		**Hemopoiesis: blood cells**	**Data show presentation and white board**	**Oral examination**
12	**2**		**Circulatory System**	**Data show presentation and white board**	**Oral examination**
13	**2**		**Circulatory System**	**Data show presentation and white board**	**Oral examination**

14	**2**		**Lymphoid System**	**Data show presentation and white board**	**Oral examination**
15	**2**		**Lymphoid System**	**Data show presentation and white board**	**Mid term examination**
16	**2**		**Nervous System**	**Data show presentation and white board**	**Oral examination**
17	**2**		**Nervous System**	**Data show presentation and white board**	**Oral examination**
18	**2**		**Endocrine System**	**Data show presentation and white board**	**Oral examination**
19	**2**		**Endocrine System**	**Data show presentation and white board**	**Oral examination**
20	**2**		**Endocrine System**	**Data show presentation and white board**	**Oral examination**
21	**2**		**Digestive System**	**Data show presentation and white board**	**Oral examination**
22	**2**		**Digestive System**	**Data show presentation and white board**	**Oral examination**
23	**2**		**Digestive System**	**Data show presentation and white board**	**Oral examination**
24	**2**		**Digestive System**	**Data show presentation and white board**	**Oral examination**
25	**2**		**Male Reproductive System**	**Data show presentation and white board**	**Oral examination**
26	**2**		**Male Reproductive System**	**Data show presentation and white board**	**Oral examination**
27	**2**		**Female Reproductive System**	**Data show presentation and white board**	**Oral examination**
28	**2**		**Female Reproductive System**	**Data show presentation and white board**	**2nd term examination**
29	**2**		**Special Sense Organs: eye**	**Data show presentation and white board**	**Oral examination**

30	**2**		**Special Sense Organs: ear**	**Data show presentation and white board**	**Final examination**

جامعة البيان

13. Course Evaluation

توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ

Distribution of the score out of 100 according to the tasks assigned to the student, such as daily preparation, daily exams, oral, monthly, written and records

Includes:

1. **Daily and term exams**
2. **Mid term exam**

Final exam (theory and practical)

Distribution degree	Method of evaluation
Theory 10 % practical 15%	1st + 2nd term 25%
15%	Mid term theory
20% practical + 40% theory	Final exam 60%
65 % theory 35 % practical	Total 100%

14. Learning & Teaching Resources

Required textbooks (curricular if any)	**1. unqueira's Basic Histology TEXT & ATLAS llustrated Dental ,Histology ,Embryology and Anatomy .** **Author: Anthony L MESCHER .Margaret J Fehrenbach and Tracy Popowics**
Main References (sources)	**1. Atlas of human histology** **Handbook of basic general histology (author:datis kalali)**
Recommended Books & References (Scientific Journals, Reports …)	**HISTOLOGY FULL-TEXT** **William A Beresford MA, D Phil©** **Professor of Anatomy** **Anatomy Department, West Virginia University, Morgantown, USA**

Websites or Electronic References	1. **Pubmed** 2. **Scopas**

جامعة البيان

Course Description (1)

1. Course Title	**Medical Physics**
2. Course Code	**050103**
3. Semester/Year	**Year**
4. Description Preparation Date	**2023-2024**
5. Available Attendance Form	**Lectures and Laboratory**
6. No. of Hours (Total)	**60 hours theory , 60 hours practical**
7. No. of Credits (Total)	**6**
8. Course Administrator Name	**A.L. shahad esmat abd alameer**
9. E-mail	**shahad.e@albayan.edu.iq**

10. Course Objectives : The objectives of the course are summarized in the College of Dentistry/ The first stage aims to provide all that the student needs, including solid theoretical curricula and practical applications, and to bring the graduate to the level required to contribute to advancing the wheel of development and to play his role in achieving comprehensive renaissance in all areas of work. Applications in medical physics contribute to all aspects of our daily lives, including the medical field, diagnostic devices, radiological imaging, physical therapy, audio and optics, the development of modern devices, and the study of physics and its effect on the human body and the physical functions of the human body's organs.

Knowledge	**A1**	**The teaching method changes according to the student's perception and interact with the lecture. It may be the discussion method, the interrogation method, or deduction and deduction method... and it may be all methods at the same time, addition to the use of laboratories to increase the student's understanding a awareness.**
	A2	
	A3	
	A4	
Skills	**B1**	**Motivating the student through expression, thinking and response**
	B2	**The lecture relies on student interaction, brainstorming, and intellectual questions**
	B3	**Giving the student the necessary space to express their scientific opinions**
	B4	**Urging the student to solve problems and possess distinctive thinking**
Values	**C1**	**Professional preparation and encouraging the student to have positive behavior his public life**
	C2	**Cultural preparation and refining the student's personality**
	C3	**Utilizing the acquired skills so that the student becomes a dentist capable understanding the physical functions of the organs of the human body.**

	C4	

11. Teaching and Learning Strategies

1.	Lectures using Data show and power point.	4.	Educational films
2.	Homework	5.	
3.	Laboratories and preparing reports	6.	

جامعة البيان

12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	2	**Terminology**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
2	2	**Terminology**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
3	2	**Force on &in body**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
4	2	**Force on &in body**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
5	2	**Physics of the skeleton**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
6	2	**Physics of the skeleton**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
7	2	**Heat and cold in medicine**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
8	2	**Heat and cold in medicine**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
9	2	**Energy, work and power of body**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
10	2	**Energy, work and power of body**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
11	2	**Pressure**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
12	2	**Pressure**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
13	2	**Electricity within the body**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
14	2	**Electricity within the body**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
15	2	**Sound in medicine**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**

16	2	**Sound in medicine**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
17	2	**Ultrasound**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
18	2	**Ultrasound**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
19	2	**Light in medicine**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
20	2	**Light in medicine**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
21	2	**Laser in medicine**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
22	2	**Laser in medicine**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
23	2	**Physics of eye and vision**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
24	2	**Physics of eye and vision**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
25	2	**Physics of diagnostic X- ray**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
26	2	**Physics of diagnostic X- ray**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
27	2	**Physics of nuclear medicine**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
28	2	**Physics of nuclear medicine**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
29	2	**Physics of radiation therapy**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**
30	2	**Physics of radiation therapy**	**Medical Physics**	**Data show presentation and white board**	**Short quiz ,Oral examination**

13. Course Evaluation
توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ

14. Learning & Teaching Resources	
Required textbooks (curricular if any)	**Medical Physics (John Cameron)**
Main References (sources)	**Physics of of the human body(Irving Herman)**
Recommended Books & References (Scientific Journals, Reports …)	
Websites or Electronic References	

جامعة البيان

Course Description (1)

1. Course Title	**General pathology**
2. Course Code	**050306**
3. Semester/Year	**Year**
4. Description Preparation Date	**2023 / 2024**
5. Available Attendance Form	**Theoretical and practical lectures**
6. No. of Hours (Total)	**Theoretical and practical lectures**
7. No. of Credits (Total)	
8. Course Administrator Name	**Lect. Dr. Susan Fawzi Khadhem Al-Sudani**
9. E-mail	**susan.falbayan.edu.iq**

10. Course Objectives

Preparing dentists who are able to know the important causes of various general diseases and study the diagnosis of various diseases and methods of using different dyes to know these diseases and their causes

Knowledge	**A1**	The ability to distinguish between different diseases
	A2	How to use dyes
	A3	Learning about tissue sectioning
	A4	
Skills	**B1**	The ability to distinguish between different diseases
	B2	How to use dyes
	B3	Learning to cut tissue
	B4	
Thinking skills		Identifying diseases and methods of diagnosing them microscopically using electron microscope, stains, and tissue sectioning
		Teaching and learning methods
		Theoretical lectures
		Scientific discussions and seminars
		Use of screens (LCD)
		Using clarification methods such as x-ray films and videos

Evaluation methods		Weekly exams
		Mid-year and end-of-year exams
		Evaluation of seminars prepared by the student
		Evaluation of the practical product
Evaluation methods		Weekly exams
		Mid-year and end-of-year exams
		Evaluation of seminars prepared by the student
		Evaluation of the practical product
Methods of evaluation	**1**	Theoretical daily and semester examinations
	2	Practical daily and semester examinations
	3	Mid-year examination
	4	Practical and theoretical final examination

11. Teaching and Learning Strategies

1.	**Theoretical lectures**	**4.**	**Using clarification methods such as x-ray films and videos**
2.	**Scientific discussions and seminars**	**5.**	
3.	**Use of screens (LCD)**	**6.**	

جامعة البيان

12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	1		Introduction	Data show presentation and white board	Oral examination
2	3		Cell damage	Data show presentation and white board	Oral examination
3	4		Inflammation	Data show presentation and white board	Oral examination
4	2		Healing and repair	Data show presentation and white board	Oral examination
5	1		Deposits and pigmentation	Data show presentation and white board	Oral examination
6	5		Infections	Data show presentation and white board	Oral examination
7	4		Immunopathology	Data show presentation and white board	Oral examination
8	3		Disorders of cell growth and development	Data show presentation and white board	Oral examination
9	5		Neoplasia	Data show presentation and white board	Oral examination
10	4		Genetics	Data show presentation and white board	Oral examination
11	4		Disturbances in body fluids and blood flow	Data show presentation and white board	Oral examination
12	4		Diseases of the cardiovascular system	Data show presentation and white board	Oral examination

13	2		Diseases of respiratory system	Data show presentation and white board	Oral examination
14	6		Hematological diseases	Data show presentation and white board	Oral examination
15	4		Diseases of G.I.T	Data show presentation and white board	Oral examination
16	3		Diseases of liver, pancreas and gall bladder	Data show presentation and white board	Oral examination
17	2		Bone diseases	Data show presentation and white board	Oral examination
18	3		Joints , Muscle and C.T. diseases	Data show presentation and white board	Oral examination
	60	**Total**			
Assessment Curriculum					
Robin,s Basic Pathology					

جامعة البيان

13. Course Evaluation
توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ

14. Learning & Teaching Resources	
Required textbooks (curricular if any)	Robin,s Basic Pathology
Main References (sources)	Robin,s Basic Pathology
Recommended Books & References (Scientific Journals, Reports …)	
Websites or Electronic References	

number	*Laboratory sessions*	Hours
1	Introduction to general pathology	2
2	Power points slides	2
3	Power points and histopathological slides demonstrating fatty changes in liver and cloudy swelling in kidney	2
4	Power points and histopathological slides of coagulative necrosis in heart muscles and caseous necrosis in lung	2
5	Power points and histopathological slides of anthracosis of lung and hemosiderosis in liver	2
6	Power points and histopathological slides of amyloidosis in kidney, H&E. and congo-red stain	2
7	Power points and histopathological slides of acute appendicitis (appendix),acute ossteomylitis and lobar pneumonia (lung,(	2
8	Power points and histopathological slides of chronic cholecystits in gall bladder and chronic osteomylitis in	2

	bone	
9	Power points and histopathological slides of keloid in skin and granulation tissue	**2**
10	Power points and histopathological slides of TB in lung and actinomycosis	**2**
11	Power points and histopathological slides of Sarcoidosis	**2**
12	Power points slides of CVC in lung and liver	**2**
13	Power points slides of blood vessels thrombosis	**2**
14	Power points and histopathological slides of lipoma, S.C papilloma of skin	**2**
15	Power points and histopathological slides of osteoma of the bone	**2**
16	Power points and histopathological slides of S.C. carcinoma and adeno carcinoma of the colon	**2**
17	Power points and histopathological slides of thyrotoxicosis of thyroid and hashimotisis thyroiditis in thyroid	**2**
18	Data show slides	**2**
19	Data show slides	**2**
20	Power points and histopathological slides of myocardial infarction of heart and atherosclerosis in blood vessels	**2**
21	Power points and histopathological slides of chronic gastritis in stomach and peptic ulcer	**2**
22	Power points and histopathological slides of liver cirrhosis and hepatocellular carcinoma	**2**
23	Power points and histopathological slides of	**2**

	emphysema in lung and chronic bronchitis in bronchus	
24	Data show	**2**
25	Data show	**2**
26	Data show	**2**
27	Data show	**2**
28	Data show	**2**
29	Power points slides	**2**
30	Power points slides	**2**
Total		**60**

جامعة البيان

Course Description (1)

1. Course Title	**PHYSIOLOGY**
2. Course Code	**050205**
3. Semester/Year	**year**
4. Description Preparation Date	**2023 / 2024**
5. Available Attendance Form	**Theoretical and practical lectures**
6. No. of Hours (Total)	**60 hours theory , 60 hours practical**
7. No. of Credits (Total)	**6**
8. Course Administrator Name	**Prof. Dr. Sahib M. H. Mohammadbakir**
9. E-mail	**sahib.mohammad@albayan.edu.iq**

10. Course Objectives

The course in human physiology, highlight about the study of the function and regulation of the human body and the complexities and interactions of cells, tissues, major organs and systems. Lectures covering membrane transport mechanisms; intracellular and electrical signaling; the physiology of excitable tissues; the physiology of blood; the cardiovascular system, gastrointestinal tract; the respiratory system; the renal system; endocrinology; and the reproductive system.
Practical part of physiology: Students will study most the experiments that have relationship with the blood picture.

Knowledge	**A1**	Urging students to identify the normal functions of the human body and compare that with abnormal imbalances.
	A2	Gaining experience and information that will help him identify the disease and know its causes.
	A3	Increasing students' knowledge of methods for examining and helping to identify some the conditions associated with blood changes through practical lectures in the laborator
	A4	
Skills	**B1**	Acquiring skills in conducting some blood-related tests
	B2	Motivating the student through the expression style, thinking, and quick communicat and response.
	B3	Encouraging the student to solve problems and possess distinctive thinking
	B4	Relying on student interaction and brainstorming in the lecture
V	**C1**	Professional preparation and promotion of positive behavior in public life

	C2	Scientific preparation and encouragement of students to communicate in other fields science
	C3	Cultural preparation and refining of the student's personality
	C4	Employing acquired skills for the student to become a dentist capable of Examin histological sections.

11. Teaching and Learning Strategies

1.	Lectures using Data show and power point.	**4.**	Electronic education
2.	Educational films	**5.**	Practical Examination of physiology experiments
3.	Monitors	**6.**	

جامعة البيان

12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	2		**Introduction Cell physiology**	**Data show presentation and white board**	**Short quiz**
2	2		**Body fluid, Edema**	**Data show presentation and white board**	**Short quiz**
3	2		**Homeostasis and Transport across cell membrane**	**Data show presentation and white board**	**Short quiz**
4	2		**ORAL CAVITY and Salivary Glands**	**Data show presentation and white board**	**Short quiz**
5	2		**Salivary function and Salivary Secretion**	**Data show presentation and white board**	**Short quiz**
6	2		**Blood and Erythrocytes**	**Data show presentation and white board**	**Short quiz**
7	2		**White Blood Cells**	**Data show presentation and white board**	**Short quiz**
8	2		**Hemoglobin**	**Data show presentation and white board**	**Short quiz**
9	2		**Blood Groups**	**Data show presentation and white board**	**Short quiz**
10	2		**Hemostasis and blood coagulation**	**Data show presentation and white board**	**Short quiz**
11	2		**Cardiovascular system: Blood vessels**	**Data show presentation and white board**	**Short quiz**
12	2		**Cardiovascular system: Blood pressure**	**Data show presentation and white board**	**Short quiz**
13	2		**Cardiovascular system (**Electrocardiogram..	**Data show presentation and white board**	**Short quiz**
14	2		**Respiratory system**	**Data show presentation**	**Short quiz**

				and white board	
15	2		Respiratory system: Lung volumes and capacities	Data show presentation and white board	Short quiz
16	2		Special sensation	Data show presentation and white board	Short quiz
17	2		Temperature of the Body	Data show presentation and white board	Short quiz
18	2		Urinary system	Data show presentation and white board	Short quiz
19	2		Urinary system: Urine formation	Data show presentation and white board	Short quiz
20	2		Endocrine System	Data show presentation and white board	Short quiz
21	2		Major Endocrine Glands	Data show presentation and white board	Short quiz
22	2		Digestive system	Data show presentation and white board	Short quiz
23	2		Digestive system	Data show presentation and white board	Short quiz
24	2		Muscular system: Muscle structure	Data show presentation and white board	Short quiz
25	2		Muscular system: Tone , contraction	Data show presentation and white board	Short quiz
26	2		Nervous System: Nerve impulse synapses	Data show presentation and white board	Short quiz
27	2		Nervous System	Data show presentation and white board	Short quiz
28	2		Reproductive system: Aging & reproductive system	Data show presentation and white board	Short quiz
29	2		Aviation and Deep physiology	Data show presentation and white board	Short quiz
30			Examination		

جامعة البيان

13. Course Evaluation

توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ

Distribution of the score out of 100 according to the tasks assigned to the student, such as daily preparation, daily exams, oral, monthly, written and records

Includes:

1. **Daily and term exams**
2. **Mid-term exam**

Final exam (theory and practical)

No	Evaluation methods	Grading Distribution
1	%25The first + the second semester	Theoretical 10% Practical 15%
2	Midyear exam 15%	Theoretical 15%
3	Final exam 60%	Theoretical 40% Practical 20%
4	100%	Theoretical 65% Practical 35%

14. Learning & Teaching Resources

Required textbooks (curricular if any)	Essentials of physiology for Dental Students. K Sembulingam A TEXTBOOK OF PRACTICAL PHYSIOLOGY. CL Ghai
Main References (sources)	Essentials of Medical Physiology. K Sembulingam and Prema Sembulingam.
Recommended Books & References (Scientific Journals, Reports …)	Guyton and Hall Textbook of Medical Physiology. John E. Hall. Ganong's Review of Medical Physiology
Websites or Electronic References	

جامعة البيان

Course Description (1)

1. Course Title	**Computer Science**
2. Course Code	**050106**
3. Semester/Year	**1st and 2nd semesters/ 1st Year**
4. Description Preparation Date	**25/3/2024**
5. Available Attendance Form	**Weekly attendance**
6. No. of Hours (Total)	**90 hours annually (30 hr theoretical + 60 hr practical)**
7. No. of Credits (Total)	**4 Units**
8. Course Administrator Name	**Riyadh Baqer Mohammed, L. A.**
9. E-mail	riyadh6249@gmail.com

10. Course Objectives

Knowledge	**A1**	Introduction to computers as indispensable tools in the modern civilization, types and applications of computers in various activities of civilized people. Basic knowledge about hardware, software and data processing.
	A2	Importance of acquisition, organization, analysis, exchanging, storage and recalling of information quickly and easily, taking into account that more quantity and better quality of information is the base of good knowledge.
	A3	Introduction to the technology of interconnecting people via networks using modern computers, including internet and world-wide web.
	A4	Computer applications in medical field, particularly in dentistry.
Skills	**B1**	Basic skills of computer driving and using of Windows operating system
	B2	Practicing Office package applications, especially text editing and word processing, presentation, and to format, organize and calculate data in a spreadsheet.
	B3	
	B4	
Values	**C1**	Efficient use of computers and information
	C2	Decent use of information in compliance with legal and moral values
	C3	Self-responsibility and collective cooperation relating to personal and institutional security information.
	C4	

11. Teaching and Learning Strategies

1.	**Lecture Notes using data show and white board**	**4.**	**Practical exercises on computers in computer lab**

2.	**Demonstration using data show**	**5.**	
3.	**Brainstorming**	**6.**	

جامعة البيان

12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	3	What is a Computer – An Introduction	Basics of computers	Classroom lecture and lab	Quiz and lab exercise
2	3	Computer structure and performance	Basics of computers	Classroom lecture and lab	Quiz and lab exercise
3	3	Computer Input and Out Put Devices	Basics of computers	Classroom lecture and lab	Quiz and lab exercise
4	3	The Windows 10 Interface Desktop layout such as icons, shortcuts, taskbar and other tools	Operating systems, Windows 10	Classroom lecture and lab	Quiz and lab exercise
5	3	Auto-Hide Task Bar - Task bar controlling - Opening and searching for Programs	Windows 10	Classroom lecture and lab	Quiz and lab exercise
6	3	What is a window Opening a window, maximizing, restoring, minimizing and closing a window	Windows 10	Classroom lecture and lab	Quiz and lab exercise
7	3	Dialogue box, check box and radio button	Windows 10	Classroom lecture and lab	Quiz and lab exercise
8	3	Files & folders management Folder creating, naming, saving, copying, moving and deleting	Windows 10	Classroom lecture and lab	Quiz and lab exercise
9	3	Types of files, filename, address and extension	Windows 10	Classroom lecture and lab	Quiz and lab exercise
10	3	Microsoft Office 2019 Introduction, Word 2019, PowerPoint 2019, Excel 2019, Access 2019, etc.	Microsoft Office 2019	Classroom lecture and lab	Quiz and lab exercise
11	3	Word 2019 - Introduction	Microsoft Office 2019 Word 2019	Classroom lecture and lab	Quiz and lab exercise
12	3	PowerPoint 2019 - Introduction	Microsoft Office 2019 PowerPoint 2019	Classroom lecture and lab	Quiz and lab exercise
13	3	Windows 10 libraries and control panel	Windows 10	Classroom lecture and lab	Quiz and lab exercise
14	3	Printing and presenting files	Windows 10	Classroom lecture and lab	Quiz and lab exercise

		Types of printers Data show			
15	3	How does the computer think and work? Arithmetic & Logical operations	Basics of computers	Classroom lecture and lab	Mid exam (theoretical)
16	3	Starting Word 2019 Components of Word 2019 Ribbon, Tabs, Groups and Commands	Word 2019	Classroom lecture and lab	Quiz and lab exercise
17	3	The main tabs are in Word File, Home, Insert, Design, Page Layout, References, Mailings, Review, View, and Help.	Word 2019	Classroom lecture and lab	Quiz and lab exercise
18	3	Adding and editing texts, tables, shapes and other objects in English	Word 2019	Classroom lecture and lab	Quiz and lab exercise
19	3	Adding and editing texts, tables, shapes and other objects in Arabic	Word 2019	Classroom lecture and lab	Quiz and lab exercise
20	3	Inserting Greek, mathematical and special characters	Word 2019	Classroom lecture and lab	Quiz and lab exercise
21	3	Starting PowerPoint 2019 Components of PowerPoint 2019	PowerPoint 2019	Classroom lecture and lab	Quiz and lab exercise
22	3	Importing text to create slides Manually creating slides Removing blank slides Changing blank slides	PowerPoint 2019	Classroom lecture and lab	Quiz and lab exercise
23	3	Starting and closing the master slide Adding new slides	PowerPoint 2019	Classroom lecture and lab	Quiz and lab exercise
24	3	Adding text to individual slides, Adding bullet points, images, clip art and images from your computer to individual slides	PowerPoint 2019	Classroom lecture and lab	Quiz and lab exercise
25	3	Adding presenter notes Adding animation effects to slide objects Showing evidence of animation effects Adding slide transitions	PowerPoint 2019	Classroom lecture and lab	Quiz and lab exercise
26	3	Starting Excel	Excel 2019	Classroom lecture and lab	Quiz and lab exercise

		Using the Shortcut on the Desktop, Taskbar, Start and Search			
27	3	Excel elements, Interface Elements, Worksheet Elements, The Ribbon Tabs, Mini Toolbar and Shortcut Menu	Excel 2019	Classroom lecture and lab	Quiz and lab exercise
28	3	Opening and Viewing Workbooks Opening an Existing Workbook Opening a Recent Workbook Opening Multiple Workbooks	Excel 2019	Classroom lecture and lab	Quiz and lab exercise
29	3	Selecting Cells, Single Cell, Selecting a Cell Range, Selecting a Row or Column, Selecting a Range of Rows or Columns, Selecting a Range of Adjacent Data, Selecting Noncontiguous Ranges Selecting an Entire Worksheet Deselecting Cells	Excel 2019	Classroom lecture and lab	Quiz and lab exercise
30	3	Creating and saving a Workbook Creating a Formula, Creating a Function Formula, AutoSum Formatting a Worksheet	Excel 2019	Classroom lecture and lab	Final exam (theoretical and practical)

13. Course Evaluation

توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ

1. **Total score of both semesters 1st & 2nd: 25 (10 for written & 15 for practical)**
2. **Mid exam (written): 15**
3. **Year endeavor: 40 (Sum of 1. & 2. above)**
4. **Final exam: 60 (35 for written exam & 25 for final practical exam)**

Total score: 100

14. Learning & Teaching Resources

Required textbooks (curricular if any)	• **Lecture Notes "Computer Basics Part 1"** • **Lecture Notes "Arithmetic and Logical Operations"** • **Lecture Notes "Computer Basics Part 2"**
Main References (sources)	• **CSCA0101 Computing Basics** • **Microsoft® Computer Basics Student Edition Complete 2003** • **Microsoft Windows 10 step by step, Joan Lambert** • **Learn Microsoft Office 2019, Linda Foulkes**
Recommended Books & References (Scientific Journals, Reports …)	
Websites or Electronic References	

جامعة البيان

Course Description (1)

1. Course Title	**Pharmacology**
2. Course Code	**050305**
3. Semester/Year	**Annually**
4. Description Preparation Date	**28-4-2024**
5. Available Attendance Form	**Lecs and labs**
6. No. of Hours (Total)	**60 hours lectures + 60 hours laboratory**
7. No. of Credits (Total)	**6 units**
8. Course Administrator Name	**Dr. Lec. Furqan Mohammed**
9. E-mail	**Furqan.m@albayan.edu.iq**

10. Course Objectives

Knowledge	**A1**	Enabling students to understand the subject of pharmacology
	A2	Enabling students to learn about the most commonly used medications in the field of dentistry, how to use them, the specific therapeutic doses, what their oral effects are, and how to reduce the side effects
	A3	Enabling students to acquire self-learning skills to acquire information, skills, and practices related to medicines
	A4	
Skills	**B1**	Motivating the student through the style of expression and thinking and the speed of communication and response
	B2	Urging the student to solve problems and possess distinctive thinking
	B3	The lecture depends on student interaction and brainstorming
	B4	Discussing various medical conditions and finding appropriate treatments for them
Values	**C1**	Professional preparation and encouraging the student to have positive behavior in his public life
	C2	Scientific preparation and urging the student to communicate in other fields of science
	C3	Cultural preparation and refining the student's personality
	C4	Utilizing the acquired skills so that the student becomes a dentist capable of treating patients

11. Teaching and Learning Strategies

1.	Online Authoring systems	**4.**	Microsoft power point for lecture presentations
2.	Internet access and E-mail	**5.**	Video and audio media equipment

3.	A data show projector	**6.**	

جامعة البيان

12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	2	General knowledge of pharmacology and medicine	General Pharmacology	Quiz + oral exam	Data show and white board
2	2	Knowledge of drug kinetics and dynamics to know the mechanism of action of drugs.	Pharmacokinetics and pharmacodynamics	Quiz + oral exam	Data show and white board
3	2	Enabling students to know the medications for the parasympathetic nervous system, their reasons for using them, their side effects, and ways to reduce these effects.	Cholinergic drugs (agonist and antagonist)	Quiz + oral exam	Data show and white board
4	2	Enabling students to know the medications for the sympathetic nervous system, their reasons for use, their side effects, and ways to reduce these effects.	Adrenergic drugs (agonist)	Quiz + oral exam	Data show and white board
5	2	Enabling students to know the special medications that act as antagonists to the sympathetic nervous system, the reasons for their use, their side effects, and ways to reduce these effects.	Adrenergic drugs (antagonist)	.Student discussion groups	Data show and white board
6	2	Enabling students to know the medications for the circulatory system and blood pressure medications, the reasons for their use, their side effects, and ways to reduce these effects.	Management of hypertension	Student discussion groups.	Data show and white board

7	2	Enabling students to know the medications for the circulatory system, heart failure medications, and angina pectoris, their reasons for use, their side effects, ways to reduce these effects, and how to deal with emergency situations.	Management of angina and Heart failure	Oral exam	Data show and white board
8	2	Enabling students to know about medications for the heart and irregular heartbeat, the reasons for their use, their side effects, ways to reduce these effects, and how to deal with emergency situations.	Management of arrhythmias	Oral exam	Data show and white board
9	2	Enabling students to know the special medications for hyperlipidemia, the reasons for their use, their side effects, and ways to reduce these effects.	Management of hyperlipidemias	Quiz	Data show and white board
10	2	Enabling students to know the special medications to treat high blood sugar, their reasons for using them, their side effects, ways to reduce these effects, and how to deal with emergency situations.	Management of hyperglycemia	Quiz	Data show and white board
11	2	Enabling students to know the special medications for anxiety and hypnotics, their reasons for using them, their side effects, ways to reduce these effects, and	Antianxiety and Hypnotics drugs	Student discussion groups.	Data show and white board

		how to deal with these medications to reduce addiction.			
12	2	Enabling students to know the medications for psychosis, depression, and epilepsy, their reasons for using them, their side effects, ways to reduce these effects, drug interactions, and how to deal with these medications to reduce addiction.	Antipsychotic, antidepressants and antiepileptic medications	Oral exam	Data show and white board
13	2	Enabling students to know about anesthesia medications, their reasons for using them, their side effects, ways to reduce these effects, drug interactions, and how to deal with these medications to reduce addiction.	Narcotic analgesics	Quiz	Data show and white board
14	2	Enabling students to know about anesthesia medications, their reasons for using them, their side effects, ways to reduce these effects, drug interactions, and how to deal with these medications to reduce addiction.	Local and General anesthetics	Quiz	Data show and white board
15	2	Enabling students to know the special medications for non-steroidal anti-inflammatory drugs (NSAIDs) and prostoglandins, their indications for use, their side effects, ways to reduce these effects, drug interactions, and how to deal	NSAIDs and prostaglandins	Discussion groups	Data show and white board

		with these medications to reduce addiction.			
16	2	Familiarity with anti-gout medications and slow-acting anti-inflammatory drugs	Gout and slow action anti-inflammatory drugs	Oral exam	Data show and white board
17	2	Enabling students to become familiar with antimicrobial medications, how to dispense them, their reasons for use, and their side effects.	Antimicrobial drugs, penicillin's, cephalosporin, macrolides and quinolones	Discussion groups	Data show and white board
18	2	Enabling students to become familiar with antifungal and antiprotozoal medications, how to dispense them, their reasons for use, and their side effects.	Anti-mycobacterial and antiprotozoal drugs	Oral exam	Data show and white board
19	2	Enabling students to become familiar with antifungal and antiviral medications, how to dispense them, their reasons for use, and their side effects.	Antifungal and antiviral drugs	Home work	Data show and white board
20	2	Enabling students to become familiar with anti-cancer drugs, their uses and side effects, and how to control and reduce these effects on the mouth and teeth.	Anti-cancer drugs	Reports	Data show and white board
21	2	Enabling students to become familiar with anti-caries medications, their uses and side effects	Anti-caries and drugs used in dental plaque	Discussion groups	Data show and white board
22	2	Enabling students to become familiar with antihistamine medications, their indications for use, their side effects, and how	Antihistamine and serotonin	Open book exam	Data show and white board

		to control and reduce these effects.			
23	2	Enabling students to become familiar with medications for the respiratory system, their reasons for use, their side effects, and how to control and reduce these effects on the mouth and teeth.	Drugs acting on respiratory system	Home work	Data show and white board
24	2	Enabling students to become familiar with corticosteroid medications, their indications for use, their side effects, and how to control and reduce these effects on the mouth and teeth.	Corticosteroids	Discussion groups	Data show and white board
25	2	Enabling students to become familiar with antiemetic medications and digestive system medications, their reasons for use, and their side effects.	Drugs acting on GIT and vomiting management	Reports	Data show and white board
26	2	Enabling students to become familiar with diuretic drugs, their uses and side effects	Diuretics	Reports	Data show and white board
27	2	Enabling students to become familiar with thyroid medications, their indications for use, their side effects, and how to control and reduce these effects.	Thyroid hormones and anti-thyroid drugs	Home works	Data show and white board
28	2	Enabling students to become familiar with anticoagulant medications, their indications for use, their side effects, and how	Anticoagulants and anti-anemic medications	Oral exam	Data show and white board

		to control and reduce these effects on the mouth and teeth.			
29	2	Enabling students to become familiar with medications related to sex hormones and contraceptive medications, their indications for use, side effects, and drug interactions.	Sex hormones and contraceptive drugs	Quiz	Data show and white board
30	2	Enabling students to become familiar with herbal medicines and toxins, their uses and side effects, and how to control and reduce these effects on the mouth and teeth.	Herbal medicine and toxicology	Quiz	Data show and white board

13. Course Evaluation

No.	Assessment measurement	Score distribution concerning theoretical lectures	Score distribution concerning laboratories
1	First semester	10%	7.5%
2	Mid year examination (15%)	15%	
3	Second semester	10%	7.5%
4	Final examination (60%)	40%	20%
Total	100%	65%	35%

14. Learning & Teaching Resources

Required textbooks (curricular if any)	Lippincott Pharmacology 8th Edition
Main References (sources)	1- Clinical Pharmacology, 11th Ed (2012)- Bennett, Brown. 2-Basic and clinical pharmacology by katzung 16th edition
Recommended Books & References (Scientific Journals, Reports …)	PubMed
Websites or Electronic References	Google scholar and research gate

جامعة البيان

Course Description (1)

Course Title .1	General human anatomy
Course Code .2	050206
Semester/Year .3	Yearly (second year)
Description Preparation Date .4	2023/2024
Available Attendance Form .5	Lectures & Labs
No. of Hours (Total) .6	30 hours of Theoretical + 60 hours of practical
No. of Credits (Total) .7	4
Course Administrator Name .8	Name: Besma Kamal Ahmed
E-mail .9	besma.kamal@albayan.edu.iq

Course Objectives .10

Knowledge	A1	Enable students to learn about human anatomy, especially the head and neck,
	A2	focus on knowing the locations of vital structures (nerves and blood vessels)
	A3	their direct relationship in the oral and maxillofacial area and his specialization as a dentist
	A4	Depending on the practical side, means of illustration and explanatory videos, a encouraging the student to connect human anatomy with his work as a dentist.
Skills	B1	Asking orally questions to students through which the student connect the anatomy material with each other and connect it to student specialty as a dentist.
	B2	Acquirement full knowledge of the organs of the human body and focus on the he and neck area.

	B3	Motivating the student through thinking and speed of response in understanding to facilitate memorizing the material.
	B4	Depending on the practical side, means of illustration and explanatory videos, and encouraging the student to connect human anatomy with his work as a dentist.
Values	C1	Preparing students practically in terms of developing the knowledge gained in human anatomy in his work as a dentist.
	C2	Thinking about solving problems and how to avoid them. Teaching professional ethi
	C3	Developing the acquired skills of the student to become a dentist capable of treat patients and solving problems related to the knowledge of oral and maxillofa anatomy to avoid their occurrence.
	C4	Developing the student's ability to deal with multiple means of learning.

11. Teaching and Learning Strategies

1.	Theoretical lectures using slides on screens.	4.	Practical lessons on anatomical models
2.	Educational films and brief explanatory videos.	5.	
3.	Student discussion groups.	6.	

The Structure of the Course .12

Week	Hours	Topic/Subject Name	RLOs	Learning method	Evaluation method
1 + 2	2	Scalp	Introduce the student to the anatomy of the scalp	Theoretical lecture using Data Show	Daily Theory Quiz
3 + 4	2	face	Introducing the student to the muscles of the face	Theoretical lecture using Data Show	Daily Theory Quiz
5+6	2	Parotid gland	Introduce the student to the anatomy and importance of the salivary glands.	Theoretical lecture using Data Show	Daily Theory Quiz
7	1	Tongue	Introducing the students, the muscles, and its Movements	Theoretical lecture using Data Show	Daily Theory Quiz
8	1	The mandibular nerve	Introducing the student to the anatomy and course of the mandibular nerve	Theoretical lecture using Data Show	Daily Theory Quiz

9+10	2	Oral Cavity	Introducing the students, the boundary and content of oral cavity	Theoretical lecture using Data Show	Daily Theory Quiz
11	1	Submandibular region	Introducing the students, the boundary and content of the region	Theoretical lecture using Data Show	Daily Theory Quiz
12	1	Temporal region	Introducing the students, the boundary and content of the region	Theoretical lecture using Data Show	Daily Theory Quiz
13	1	The pterygopalatine	Introducing the students, the boundary and content of the fossa	Theoretical lecture using Data Show	Daily Theory Quiz
14+15	2	The orbital region	Introducing the students, the orbital skeleton,and muscles	Theoretical lecture using Data Show	Daily Theory Quiz
16	1	the nasal cavity	Introducing the students, the boundary of nasal cavity	Theoretical lecture using Data Show	Daily Theory Quiz

17+18	2	Temporomandibular joint	Introducing the students, the boundary, important relations of tmj.	Theoretical lecture using Data Show	Daily Theory Quiz
19+20	2	The neck	Introducing the students the neck	Theoretical lecture using Data Show	Daily Theory Quiz

21+22	2	Triangles of the neck	Introducing the students the neck muscle and triangles	Theoretical lecture using Data Show	Daily Theory Quiz
23+24	2	Root of the neck	Introducing the students the anatomy of muscles, nerves, with lymph drainage	Theoretical lecture using Data Show	Daily Theory Quiz
25+26	2	Arteries of the neck	Introducing the students the anatomy of aorta, brachiocephalic, common carotid and their branches with related vein	Theoretical lecture using Data Show	Daily Theory Quiz
27	1	Pharynx	Introducing the students the parts, muscle and innervation and relation of pharynx	Theoretical lecture using Data Show	Daily Theory Quiz
28	1	larynx	Introducing the students the parts, muscle and innervation and relation of larynx	Theoretical lecture using Data Show	Daily Theory Quiz
29	1	Brain	Introducing the student to the anatomy of the brain	Theoretical lecture using Data Show	Daily Theory Quiz
30	1	Cranial nerves	Introducing the students, 12 cranial nerve paths, foramina, innervation	Theoretical lecture using Data Show	Daily Theory Quiz

جامعة البيان

.1 Course Evaluation
توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ 1- **Daily quiz for theoretical subject** 2- **Oral questions** 3- **Degree of attendance** 4- **Mid-year exam** 5- **Final Exam**

.2 Learning & Teaching Resources	
Required textbooks. (curricular if any)	**Snell's clinical anatomy 10th edition** **Netter's head and neck anatomy 3rd edition**
Main References (sources)	**Snell's clinical anatomy 10th edition** **Netter's head and neck anatomy 3rd edition** **Gray's anatomy for students** **4th edition** **Atlas of clinical cross anatomy 2nd edition**
Recommended Books & References (Scientific Journals, Reports …)	**Read recent research in academic publishing journals**
Websites or Electronic References	**Google scholar, research gates.**

Course Description (1)

1. Course Title	**General surgery**
2. Course Code	050408
3. Semester/Year	**year**

4. Description Preparation Date	2023 -2024
5. Available Attendance Form	**Theory and clinical**
6. No. of Hours (Total)	30 hours Theoretical / 75 hours practical lectures
7. No. of Credits (Total)	**6**
8. Course Administrator Name	Prof . Dr. Amer hasan hashoosh
9. E-mail	

10. Course Objectives

Knowledge	**A1**	The student is at an advanced level in the field of general surgery, including recognizing general surgical cases
	A2	methods of diagnosis and treatment, and their relationship with their specific field as a dentist.
	A3	They should be familiar with surgical emergencies and how to handle them.
	A4	fundamentals of general surgery.
Skills	**B1**	Acquiring knowledge about general surgical cases, their diagnosis, and treatment
	B2	Essential diagnostic methods
	B3	emergency case management
	B4	, surgical complications management
Values	**C1**	specific skills related to the topic,
	C2	including specialized diagnostic techniques,
	C3	types of laboratory tests, and radiology relevant to surgical cases.
	C4	Qualifying students to examine, diagnose and treat patientst

11. Teaching and Learning Strategies

1.	Lectures using data show and power point	**4.**	E-learning
2.	Educational films	**5.**	Blackboards
3.	Display screens	**6.**	.Student discussion groups

جامعة البيان

12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	2	Case history	Defining the importance and strategies of history taking	Data show &whiteboard	**Quiz**
3	2	Clinical examination	Inform the students about the ways and techniques of clinical examination	Data show &whiteboard	**Quiz**
5	2	Surgical wound and infections	Inform the students about wound healing and infection	Data show &whiteboard	**Oral quiz**
7	1	Wound healing	Inform the patients about the stages and mechanism of wound healing	Data show &whiteboard	**Quiz**
8	2	Hemorrhage and blood transfusion	Inform patients about hemorrhage controlling and blood transfusion	Data show &whiteboard	**Quiz**

10	2	Fracture and dislocation of bones	Inform the students about principles of fractures	Data show &whiteboard	**Home work**
12	2	Head injuries	Inform the students about consequences and management of head injury	Data show &whiteboard	**Home work**
14	3	Parenteral feeding	Inform the students about the indications, techniques and importance of parenteral feeding	Data show &whiteboard	**Quiz**
17	3	Fluid and electrolytes balance	Inform the patients about the importance of fluid and electrolytes balance	Data show &whiteboard	**Report**
20	1	Surgical resuscitation and medical emergencies	Inform the students about surgical resuscitation and management of medical emergencies	Data show &whiteboard	**Quiz**

21	2	Differential diagnosis of swelling in the neck	Learning the students about the examination of neck swellings	Data show &whiteboard	**Quiz**
23	1	Diseases of the nose and Para nasal sinuses	Introduction of diseases of nose and paranasal sinuses	Data show short movie	**Discussion group**
24	1	Diseases of pharynx and larynx and esophagus	Introduction to the diseases of pharynx and larynx and esophagus	Data show short movie	**Discussion group**
26	3	General anesthesia, pain management and postoperative care	Informing the students about the principles of general anesthesia	Data show short movie	**Discussion group**
28	3	Chest trauma and diseases	Informing the students about chest trauma	Data show short movie	**Discussion group**
29	2	Thyroid gland and goiter	Defining to the students about thyroid gland diseases	Data show short movie	**Discussion group**

جامعة البيان

13. Course Evaluation

توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ

1st and 2nd semester 25%	Theoretical 10% Clinical 15%
Mid year exam	Theoretical 15%
Final exam	Theoretical 40% Clinical 20%
100%	**Theoretical 65%** **Clinical 35%**

14. Learning & Teaching Resources

Required textbooks (curricular if any)	1.Baily and Love's short practice of surgery 25th edition 2008. 2.Schwarz principles of surgery.
Main References (sources)	
Recommended Books & References (Scientific Journals, Reports …)	New articles from journals
Websites or Electronic References	Articles from goggle scholar and pupmed

Course Description (1)

15. Course Title	periodontics/ fifth grade
16. Course Code	050507
17. Semester/Year	**2023- 2024**
18. Description Preparation Date	**28/4/2024**

19.	**Available Attendance Form**	lectures, clinics
20.	**No. of Hours (Total)**	30 hrs theoretical, 90 hrs clinical 4.5 units
21.	**No. of Credits (Total)**	**4.5**
22.	**Course Administrator Name**	Manar ibrahim ahmed
23.	**E-mail**	manar.i@albayan.edu.iq

24. Course Objectives

Knowledge	**A1**	- Gaining experience and information that will help him identify the disease and know its causes
	A2	Developing motivational interviewing skills to encourage patients to take .preventive measures
	A3	Increasing the student's knowledge of methods for examining teeth and detecting ca and gingivitis, based on factors such as oral hygiene and habits
	A4	,Learn how to assess patients' risks of dental diseases, including dietary diseases tobacco use, and chronic diseases
Skills	**B1**	Motivating the student through the style of expression,thinking, and speed of communication and response
	B2	Urging the student to solve problems and possess distinctive thinking
	B3	The lecture depends on student interaction and brainstorming
	B4	Qualifying students to examine, diagnose and treat patients
Values	**C1**	Acquiring skills in conducting clinical examinations for early detection of periodontal diseases
	C2	Developing motivational interviewing skills to encourage patients to take .preventive measures

	C3	Identify the indicators and techniques for applying gum disease treatments and the correct methods for using chemical and mechanical prevention methods.
	C4	Qualifying students to examine, diagnose and treat patientst

25. Teaching and Learning Strategies

1.	Lectures using data show and power point	4.	E-learning
2.	Educational films	5.	Blackboards
3.	Display screens	6.	Student discussion groups.

جامعة البيان

26. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	1	Learn how to examine, manage a diagnose the cases	Periodontal examination and diagnc	Data show &whiteboard	**Quiz**
2	1	Learn about the mechanisms, comes of bone loss	Bone loss and pattern of b destruction	Data show &whiteboard	**Quiz**
3	1	Learn about the new and modern radio graphical modalities of diagnosis	Radiographic aids in the diagnosis periodontal diseases	Data show &whiteboard	**Oral quiz**
4	1	Learn about the new and advanced methods of diagnosis	Advanced diagnosis	Data show &whiteboard	**Quiz**
5	1	Learn about the external forces, traumatic occlusion and the outcomes	Periodontal response to external forces	Data show &whiteboard	**Quiz**
6	1	Learn the immune system, parts, reactions with periodontal tissues	Immunology (Innate immunity)	Data show &whiteboard	**Home work**
7	1	Learn the immune system, parts, reactions with periodontal tissue	Immunology (Adaptive immunity)	Data show &whiteboard	**Home work**
8	1	Learn about the causes, mamagement and prevention of tooth mobility	Tooth mobility	Data show &whiteboard	**Quiz**

9	1	Learn about the types, uses and benefits of epidemiological studies	Epidemiology of periodontal diseases	Data show &whiteboard	**Report**
10	1	Learn about the prognosis of periodontal treatment	Determination of prognosis	Data show &whiteboard	**Quiz**
11	1	Learn about the relationship of periodontology with various aspects of dentistry	Interrelationships of periodontal diseases with other aspects of dentistry	Data show &whiteboard	**Quiz**
12	1	Learn about the indication, contra indication and the guidelines of periodontal surgery	General Principles of Periodontal Surgery	Data show short movie	**Discussion group**
13	1	Learn about the indication, contra indication , advantages and dis advantages and the procedure of gingivectomy	Gingivectomy and local excision	Data show short movie	**Discussion group**
14	1	Learn about the indication, contra indication , advantages and dis advantages and the procedure of flap surgery	Flap surgery	Data show short movie	**Discussion group**
15	1	Learn about the indication, contra indication , advantages and dis advantages and the procedure of mucogingival surgery	Mucogingival and aesthetic surgery	Data show short movie	**Discussion group**
16	1	Learn about the causes, diagnosis, classification and the	Furcation involvement and treatment	Data show short movie	**Discussion group**

		treatment of furcation involvement			
17	1	Learn about the advantages, disadvantages and the principles of laser therapy in periodontics	Laser therapy	Data show &whiteboard	Quiz
18	1	Learn about the advantages, disadvantages and the principles locally delivered controlled-release antimicrobial of in periodontics	Locally delivered controlled-release antimicrobials	Data show &whiteboard	Quiz
19	1	Learn about the diagnosis of patients systemic diseases and the steps of dental management	Management of medically compromised patients-part 1	Data show &whiteboard	Quiz
20	1	Learn about the diagnosis of patients systemic diseases and the steps of dental management	Management of medically compromised patients-part 2	Data show &whiteboard	Quiz
21	1	Learn about the indication, contraindication, advantages, disadvantages and how to use the sonic and ultrasonic instruments	Sonic and ultrasonic instrumentation and irrigation	Data show &whiteboard	Quiz
22	1	Learn about the advantages, disadvantages and the role of GCF in the maintenance of the periodontal health	Gingival crevicular fluid	Data show &whiteboard	Quiz

23	1	Learn how to diagnose, prevent and manage the DH	Dentin hypersensitivity	Data show &whiteboard	Quiz
24	1	Learn about the healing process and the regeneration in physiological and pathological conditions, the principles of good regeneration techniques	Tissue regeneration (general principles)	Data show short movie	Quiz
25	1	Learn about the indication, contraindication, advantages, disadvantages and the principles of tissue regeneration	Regenerative periodontal therapy	Data show short movie	Quiz
26	1	Learn the types of reconstructive procedures and the techniques	Reconstructive surgical technique	Data show short movie	Quiz
27	1	Discussed the advanced methods to attain attachment gain and regeneration	Advanced regenerative approaches	Data show short movie	Quiz
28	1	An introduction to the dental implant indication, contra indication and the principles of it	Oral implantology part-1	Data show &whiteboard	Quiz
29	1	Discussed the implant dental tissues interface and the type of connection	Oral implantology part-2	Data show &whiteboad	Quiz
30	1	Deals with the diseases associated with dental implant(peri implantitis, peri	Oral implantology part-3	Data show &whiteboard	Quiz

		implant mucositis and how to manage it)			

جامعة البيان

27. Course Evaluation

توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ

1st and 2nd semester 25%	Theoretical 10% Clinical 15%
Mid year exam	Theoretical 15%
Final exam	Theoretical 40% Clinical 20%
100%	**Theoretical 65%** **Clinical 35%**

28. Learning & Teaching Resources

Required textbooks (curricular if any)	Carranza's Clinical Periodontology
Main References (sources)	1- lindhe 2015 2-Newman_and Carranza's Clinical_Periodontology
Recommended Books & References (Scientific Journals, Reports …)	Clinical periodontology Periodontal 2000
Websites or Electronic References	Pubmed Google scholar

Course Description (1)

29. Course Title	periodontics/ fourth grade
30. Course Code	050404
31. Semester/Year	annual

32. Description Preparation Date	1/5/2024
33. Available Attendance Form	lectures, clinics
34. No. of Hours (Total)	30 hrs theoretical, 90 hrs clinical 5 units
35. No. of Credits (Total)	**5**
36. Course Administrator Name	**Hayder sadiq baker**
37. E-mail	**Hayder.sadiq@albayan.edu.iq**

38. Course Objectives

Knowledge	**A1**	Preparing dental students to maintain oral and dental health, with a focus on how to examine diagnose periodontal diseases. Through this, dental students can contribute to reducing the bur of gum disease in their future practices and enhancing the overall health of their patients
	A2	• Learning Outcomes A- Knowledge and understanding 1- Gaining experience and information that will help him identify the disease and know its causes Developing motivational interviewing skills to encourage patients to take -2 .preventive measures Increasing the student's knowledge of methods for examining teeth and -3 detecting caries and gingivitis, based on factors such as oral hygiene and habits ,Learn how to assess patients' risks of dental diseases, including dietary diseases -4 tobacco use, and chronic diseases
	A3	
	A4	
Skills	**B1**	B - Subject-specific skills 1- Acquiring skills in conducting clinical examinations for early detection of periodontal diseases Developing motivational interviewing skills to encourage patients to take -2 .preventive measures Identify the indicators and techniques for applying gum disease treatments and the correct methods for using chemical and mechanical prevention methods
	B2	• C- Thinking skills Motivating the student through the style of expression,thinking, and speed of-1 communication and response

		Urging the student to solve problems and possess distinctive thinking -2 The lecture depends on student interaction and brainstorming -3 Qualifying students to examine, diagnose and treat patients -4
	B3	D -General and transferable skills (other skills related to employability and (personal development Professional preparation and urging the student to have positive behavior in his -1 public life Scientific preparation and urging the student to communicate in other fields of -2 science Cultural preparation and refining the student's personality -3 Utilizing the acquired skills so that the student becomes-4 dentist capable of treat patients
	B4	
Values	**C1**	
	C2	
	C3	
	C4	

39. Teaching and Learning Strategies

1.	Lectures using data show and power point .	**4.**	E-learning
2.	Educational films	**5.**	Blackboards
3.	Display screens	**6.**	Student discussion groups

جامعة البيان

40. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	1	Learn the histological composition the periodontal tissues with scientific terms of it	Terms & definitions frequently used in periodontology	Datashow &whiteboard	quiz
2	1	Students will learn the properties a the benefits of the gingival tissues a protective barrier	gingiva	Datashow &whiteboard	quiz
3	1	Students will learn the properties a the benefits of the PL as a connect part and cushion for external forc	Periodontal ligament	Datashow &whiteboard	quiz
4	1	Students will learn the properties a the benefits of the alveolar bone an invesment of the tooth root	Alveolar bone	Datashow &whiteboard	quiz
5	1	Learn about the root cem covering the roots, function a composition	Root cementum	Datashow &whiteboard	**Discussion groups**
6	1	Learn the causes, prevent measures and risks developing periodon diseases	Classification of periodontal diseases and conditions (2017)	Datashow &whiteboard	Home work

7	1	Learn about the new classificatior periodontal disease	Classification of periodontal diseases and conditions (2017) -Periodontitis	Datashow &whiteboard	quiz
8	1	Learn about the periodontal absc and its treatment1	Other conditions affecting the periodontium -Periodontal abscess	Datashow &whiteboard	quiz
9	1	Learn about the types of periodor diseases, causes and its mechanis	Pathogenesis of periodontal disease	Datashow &whiteboard	Report
10	1	Learn the composition of bacte dental plaque, method of formati virulence factors and prevent measures	Dental plaque biofilm and periodontal microbiology	Datashow &whiteboard	Home work
11	1	Learn the the hypothesiese of plac	Microbiologic specificity of periodontal diseases	Datashow &whiteboard	quiz
12	1	Learn the composition of der calculus, method of formation a preventive measures	Dental calculus	Datashow &whiteboard	report
13	1	Causes of dental stain and treatmen	Dental stain	Datashow &whiteboard	Quiz
14	1	Learn about the the systemic fact that cause periodontal disease	Systemic risk factors	Datashow &whiteboard	Quiz

15	1	Student must will learn the relat between cell and microbe	Etiology of periodontal disease molec biolog	Datashow &whiteboard	Quiz
16	1	The relation between smoking and risk on periodontal disease	Smoking and periodontal diseses	Datashow &whiteboard	Quiz
17	1	Student will learn about the imp of periodontal diseses on gene health	Impact of periodontal infection on systemic health	Datashow &whiteboard	Quiz
18	1	Effect of ashmatic patient periodontal treatment	Periodontal disease and asthma	Datashow &whiteboard	Quiz
19	1	Learn about indices and its types	Periodontal indices	Datashow &whiteboard	Quiz
20	1	Learn about the types of pockets a its classification	Periodontal pocket	Datashow &whiteboard	Quiz
21	1	Learn about the changes that oc during pockets formation at tis level	The periodontal pocket Periodontal disease activity	Datashow &whiteboard	Quiz
22	1	Students will learn how to iden and treat various diseases of periodontium	Treatment plan guidelines - Phase 1	Datashow &whiteboard	Home work
23	1	In this phase of periodon treatment , the students wii le that the cure of the condition	Cause related phase	Datashow &whiteboard	Oral quis

		related to the removal of causative agent			
24	1	After the resolution of the disea students will learn how reconstruct the damage result fr these pathogenic processes	Corrective phase	Datashow &whiteboard	Quiz
25	1	After treatment, the health st must be maintained through regu follow up program	Maintenance phase	Datashow &whiteboard	Quiz
26	1	Student will learn the types of to brush and interdental aids	Plaque biofilm control for the periodontal patient	Datashow &whiteboard	Quiz
27	1	Student will learn types a composition of mouth washes	Chemical plaque biofilm control	Datashow &whiteboard	Quiz
28	1	Student will learn types instruments used in periodor branch	Periodontal instruments and sharpening	Datashow &whiteboard	Home work
29	1	Learn about the types of halito causes and treatment	halitosis	Datashow &whiteboard	Quiz
30	1	Types of antibiotics	Common antibiotic regimens	Datashow &whiteboard	**Discussion group**

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41. Course Evaluation
توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ

42. Learning & Teaching Resources	
Required textbooks (curricular if any)	Carranza's Clinical Periodontology
Main References (sources)	1- lindhe 2015 2-Newman_and Carranza's Clinical_Periodontology
Recommended Books & References (Scientific Journals, Reports …)	
Websites or Electronic References	pumbe Google scholar

Course Description (1)

43. Course Title	Oral surgery
44. Course Code	**050403**
45. Semester/Year	**Annually**
46. Description Preparation Date	**27-4-2024**
47. Available Attendance Form	**Lectures and clinic**
48. No. of Hours (Total)	**Theories =30h. clinic =120 h**
49. No. of Credits (Total)	**5**

50. Course Administrator Name	Doctor lecturer: Natheer Ayed Jassem
51. E-mail	natheer.ayed@albayan.edu.iq

52. Course Objectives

Knowledge	A1	Enable students to obtain knowledge and understanding of oral and maxillofacial surgery
	A2	Enabling students to obtain knowledge and understanding of general diseases of human body and their relationship to oral and dental health and their impact on treatment plan.
	A3	Enabling the student to perform simple tooth extraction operations
	A4	Training the student in simple surgical operations and suturing wounds
Skills	B1	Enabling students to acquire and understand the basic principles of oral surgery
	B2	Enabling students to write down the patient's general medical history.
	B3	Enabling students to possess self-learning skills to acquire information, skills, practices related to tooth extraction in general.
	B4	Enabling students to possess self-learning skills to acquire informati skills, and practices related to tooth extraction in general.
Values	C1	Enabling students to possess self-learning skills to acquire information, skills, and practices related to tooth extraction in general.
	C2	
	C3	
	C4	

53. Teaching and Learning Strategies

1.	Online Authoring systems	4.	Microsoft power point for lecture presentations
2.	Internet access and E-mail	5.	Video and audio media equipment

3.	A data show projector	6.	**Training extraction of teeth in clinic**

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54. The Structure of the Course					
Week	**Hours**	**Topic/Subject Name**	**RLOs**	**Learning Method**	**Evaluation Method**
1	**1**	**Cardiovascular diseases**	**General knowledge of cardiovascular diseases and their impact on the course of treatment in the dental clinic**	**Display data show and blackboard**	**quiz**
2	**1**	**Cardiac arrhythmia**	**General knowledge of heart arrhythmia and rheumatic fever**	**Display data show and blackboard**	**quiz**
3	**1**	**Bleeding disorder**	**General knowledge on bleeding disorder type ,how mange in dental clinic**	**Display data show and blackboard**	**quiz**
4	**1**	**Endocrinology**	**Thyroid gland ,pancreases and adrenal gland disease and effect of these disease on the oral surgery procedures**	**Display data show and blackboard**	**Discussion questior**
5	**1**	**Pulmonary diseases**	**Explain how asthma, tuberculosis and chronic bronchial disease managed in dental clinic**	**Display data show and blackboard**	**quiz**
6	**1**	**Liver Diseases**	**Explain Viral hepatitis Dental management Oral manifestations and complications Alcoholic liver disease Dental management Oral complications and manifestations**	**Display data show and blackboard**	**1st trim exam.**

7	**1**	**Chronic kidney disease and dialysis**	**Chronic kidney disease Dental management of Patients receiving conservative care and Dialysis Renal transplant Oral complications and manifestations**	**Data show and blackboard display + explanatory films**	**quiz**
8	**1**	**Neurologic disorders**	**Epilepsy Dental management Oral complications and manifestations Cerebrovascular accidents (stroke) Medical management Dental management**	**Data show and blackboard display explanatory films**	**quiz**
9	**1**	**Pregnancy**	**Dental management Medical considerations Treatment timing Dental radiographs Drugs in pregnancy Oral manifestations and complications**	**Data show and blackboard display + explanatory films**	**Discussion questior**
10	**1**	**AIDS and HIV infection**	**Oral manifestations Dental managements: Asymptomatic patient. Symptomatic patient.Patient with severe symptoms**	**Data show and blackboard display + explanatory films**	**Discussion groups**
11	**1**	**Rheumatologic and connective tissue disorders**	**Rheumatoid arthritis Dental management Oral manifestations and complications Dental management of patients with prosthetic joint**	**Display data show and blackboard**	**quiz**
12	**1**	**Allergy**	**Dental management Oral complications and manifestations**	**Data show and blackboard display + explanatory films**	**quiz**

13	1	**Patients on radiotherapy and chemotherapy**	**Patients on radiotherapy Radiation effects on normal tissues in the path of the external beam Dental Management Patients on chemotherapy The effect of chemotherapy on normal tissues Dental management**	**Data show and blackboard display + explanatory films**	**Discussion question**
14	1	**Odontogenic infections and fascial space infections**	**Explain Odontogenic Infections Spread of odontogenic infections The factors that influence the spread of odontogenic infections**	**Display data show and blackboard**	**quiz**
15	1	**Fascial space infections**	**Explain Fascial space infections Infection of spaces in relation to the lower jaw Infections of spaces in relation to the upper jaw Cavernous sinus thrombosis**	**Data show and blackboard display + explanatory films**	**Discussion groups**
16	1	**Principles of treatment of odontogenic infections**	**Explain Principles of treatment of odontogenic infections Principles for the use of appropriate antibiotics Sinus formation Necrotizing fasciitis**	**Display data show and blackboard**	**quiz**
17	1	**Principles of Flaps, suturing and management of difficult extraction**	**Explain Flaps in oral cavity Incision Flap design Types of Mucoperiosteal Flaps Flap reflection Suturing Suture Materials Needles Needle Holder Tissue Forceps**	**Display data show and blackboard**	**Discussion question**
18	1	**Management of difficult extraction**	**Explain The main indications for surgical extraction of teeth are , Steps of surgical extraction Indications for**	**Display data show and blackboard**	**quiz**

			leaving root fragments Multiple Extractions Extraction sequencing		
19	**1**	**Principles of management of impacted teeth**	**Explain Definition and stages of eruption Impacted lower third molars Indications for removal of impacted lower third molars Classification of impacted lower third molars Clinical examination Radiographic examination and assessment Surgical extraction of lower third molar Complications Other lines of treatment**	**Data show and blackboard display + explanatory films**	**quiz**
20	**1**	**Impacted upper third molars**	**Explain Surgical extraction Complications Impacted maxillary canine Classification Clinical examination Radiographic examination and assessment Options of treatment**	**Display data show and blackboard**	**Discussion groups**
21	**1**	**Impacted mandibular canines**	**Explain Impacted mandibular canines Impacted lower premolars Impacted maxillary premolars Impacted first and second molars Buried deciduous molars Supernumerary teeth Dilacerated incisors**	**Display data show and blackboard**	**quiz**
22	**1**	**Surgical aids to orthodontics**	**Explain Corticotomy assisted orthodontic treatment and labial Labial frenectomy. Temporary skeletal anchorage**	**Data show and blackboard display + explanatory films**	**Discussion questior**

23	**1**	**Principles of endodontic surgery**	**Explain Definition Indications for periapical surgery Contraindications for periapical surgery Important considerations in periapical surgery Factors Associated with Success and Failures in Periapical Surgery**	**Display data show and blackboard**	**quiz**
24	**1**	**Surgical procedure of apicectomy**	**Explain apicectomy Surgical procedure and To perform biopsy or not Determination of success Microsurgical technique**	**Display data show and blackboard**	**quiz**
25	**1**	**Osteomyelitis and osteonecrosis of the jaw**	**Explain Osteomyelitis Definition. Classification Etiology and pathogenesis Clinical presentation Diagnostic imaging Microbiology Treatment: surgical, antimicrobial and hyperbaric oxygen Other Explain types of osteomyelitis: infantile, focal and diffuse sclerosing and Garre's sclerosing osteomyelitis**	**Display data show and blackboard**	**Discussion question**
26	**1**	**Radiation induced osteomyelitis and osteoradionecrosis**	**Explain Definition • Etiology Stages Treatment Prevention Medication related osteonecrosis of the jaw • Definition Pathophysiology Clinical presentation and staging Imaging Treatment Prevention**	**Data show and blackboard display + explanatory films**	**2nd trim exam**
27	**1**	**Dental Implants: Basic Concepts and Techniques**	**Explain Implant Geometry (Macrodesign) Implant Surface Characteristics (Microdesign) Hard**	**Display data show and blackboard**	**quiz**

			Tissue Interface Soft Tissue–Implant Interface Biomechanical Considerations Preoperative Assessment and Treatment Planning (hard tissue evaluation, soft tissue evaluation, radiographic examination)		
28	**1**	**Surgical Treatment Planning Considerations of dental implant**	**Explain Surgical Treatment Planning Considerations Final Treatment Planning Basic Implant Surgical Procedures One-Stage versus Two-Stage Implant Placement Surgery Implant Stability Complications Implant Components Defining implant outcomes**	**Display data show and blackboard**	**Discussion groups**
29		**Biopsy in oral and maxillofacial surgery**	**Explain Medical History • History of the lesion Examination Differential Diagnosis Biopsy Principles Contraindication Excisional Biopsy Incisional Biopsy •Surgical technique**	**Data show and blackboard display + explanatory films**	**quiz**

30		**Diagnostic imaging in oral and maxillofacial surger**	**Explain Classification: Invasive and Nor invasive Types of non-invasive imaging Conventional radiography (Plain x-ray Ultrasonography (USG): Computed tomography scanning (CT scan): Spiral CT, Cone Beam CT (CBCT) Magnetic resonance imaging (MRI) MRI vs. CT sc Radionuclide (scintigraphy or skeletal scan) Positron emission tomography (PET) Scan PET-CT Single Photon Emission Computed Tomography (SPECT) scan**	**Display data show and blackboard**	**Discussion question**

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1. Course Evaluation

No.	Assessment measurement	Score distribution concerning theoretical lectures	Score distribution concerning clinic
1	First semester	5%	7.5%
2	Mid year examination (15%)	15%	
3	Second semester	5%	7.5%
4	Final examination (60%)	40%	20%
Total	100%	65%	35%

2. Learning & Teaching Resources

Required textbooks (curricular if any)	
Main References (sources)	**Dental management of medically compromised patient 9th edit.** **Contemporary Oral and Maxillofacial Surgery 7th edit.**
Recommended Books & References (Scientific Journals, Reports …)	**Make periodic reports and read recent research in reputable journals**
Websites or Electronic References	**Google scholar, research gates**

Course Description (1)

55. Course Title	Oral surgery
56. Course Code	**050303**
57. Semester/Year	**Annually**
58. Description Preparation Date	**27-4-2024**
59. Available Attendance Form	Theoretical and practical lectures
60. No. of Hours (Total)	**90 hours**
61. No. of Credits (Total)	**4**
62. Course Administrator Name	Assist. Prof . Dr. Mudher MB. Al-Sunubli
63. E-mail	mudher.m@albayan.edu.iq

64. Course Objectives

Knowledge	**A1**	Enable the students to acquire basic knowledge about oral surgery
	A2	Enable the students to Identify the surgical tools used in oral surgery and surgical meth
	A3	Enable the students to acquire basic knowledge about local anesthesia and its metho
	A4	
Skills	**B1**	Knowledge of the basics of oral diagnosis and surgical instruments
	B2	Methods of tooth extraction and oral surgery
	B3	Learn the different methods of local anesthesia
	B4	
Values	**C1**	Preparing the student practically in what is related to oral surgery and local anesthesia
	C2	
	C3	
	C4	

65. Teaching and Learning Strategies			
1.	Online Authoring systems	4.	Microsoft power point for lecture presentations
2.	Internet access and E-mail	5.	Video and audio media equipment
3.	A data show projector	6.	

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66. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	2		Diagnosis in oral surgery (exodontia)	Quiz + oral exam	Data show and white board
2	2		Extraction of teeth (exodontia)	Quiz + oral exam	Data show and white board
3	2		Contra indications of extraction (exodontia)	Quiz + oral exam	Data show and white board
4	1		General arrangement for extraction (exodontia)	Quiz + oral exam	Data show and white board
5	2		Dental forceps (exodontia)	Student discuss groups.	Data show and white board
6	2		Elevators (exodontia)	Student discuss groups.	Data show and white board
7	2		Techniques of forceps extraction and post operative instructions (exodontia)	Oral exam	Data show and white board
8	3		Complications of teeth extractions (exodontia)	Oral exam	Data show and white board
9	3		Basic surgical instruments (exodontia)	Quiz	Data show and white board

10	1		Introduction to local anesthesia (local anesthesia)	Quiz	Data show and white board
11	2		Pharmacology of local anesthesia (local anesthesia)	Student discuss groups.	Data show and white board
12	1		Surgical anatomy in local anesthesia (local anesthesia)	Oral exam	Data show and white board
13	1		Instruments of local anesthesia (local anesthesia)	Quiz	Data show and white board
14	3		Techniques of local anesthesia (local anesthesia)	Quiz	Data show and white board
15	3		Complications of local anesthesia (local anesthesia)	Discussion groups	Data show and white board
16	2		Diagnosis in oral surgery (exodontia)	Oral exam	Data show and white board
17	2		Extraction of teeth (exodontia)	Discussion groups	Data show and white board
18	2		Contra indications of extraction (exodontia)	Oral exam	Data show and white board
19	1		General arrangement for extraction (exodontia)	Home work	Data show and white board
20	2		Dental forceps (exodontia)	Reports	Data show and white board
21	2		Elevators (exodontia)	Discussion groups	Data show and white board

22	2		Techniques of forceps extraction and post operative instructions (exodontia)	Open book exam	Data show and white board
23	3		Complications of teeth extractions (exodontia)	Home work	Data show and white board
24	3		Basic surgical instruments (exodontia)	Discussion groups	Data show and white board
25	1		Introduction to local anesthesia (local anesthesia)	Reports	Data show and white board
26	2		Pharmacology of local anesthesia (local anesthesia)	Reports	Data show and white board
27	1		Surgical anatomy in local anesthesia (local anesthesia)	Home works	Data show and white board
28	1		Instruments of local anesthesia (local anesthesia)	Oral exam	Data show and white board
29					
30					

3. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**

1	2		**Laboratory sessions & *Clinical requirements***	Quiz + oral exam	Data show and white board
2	2		Introduction	Quiz + oral exam	Data show and white board
3	2		What is oral and maxillofacial surgery?	Quiz + oral exam	Data show and white board
4	2		History and diagnosis (1).	Quiz + oral exam	Data show and white board
5	2		History and diagnosis (2).	Student discuss groups.	Data show and white board
6	2		Case sheet and patient (1)	Student discuss groups.	Data show and white board
7	2		Case sheet and patient (2)	Oral exam	Data show and white board
8	2		Examination.	Oral exam	Data show and white board
9	2		Surgical instruments part (1).	Quiz	Data show and white board
10	2		Surgical instruments part (2).	Quiz	Data show and white board
11	2		Surgical instruments part (3).	Student discuss groups.	Data show and white board
12	2		Examination	Oral exam	Data show and white board
13	2		General arrangement for extraction.	Quiz	Data show and white board
14	2		Position of patient, operator, the use of chair (in the clinic)	Quiz	Data show and white board

15	2		Examination.	Discussion groups	Data show and white board
16	2		Local anesthesia (introduction)	Oral exam	Data show and white board
17	2		Dental forceps (part 1).	Discussion groups	Data show and white board
18	2		Dental forceps (part 2).	Oral exam	Data show and white board
19	2		Dental forceps (part 3).	Home work	Data show and white board
20	2		Dental elevator (part 1).	Reports	Data show and white board
21	2		Dental elevator (part 2).	Discussion groups	Data show and white board
22	2		Dental elevator (part 3).	Open book exam	Data show and white board
23	2		Examination	Home work	Data show and white board
24	2		Local anesthesia (surgical), (anatomy)	Discussion groups	Data show and white board
25	2		Local anesthesia equipment.	Reports	Data show and white board
26	2		Local anesthesia techniques (infiltration).	Reports	Data show and white board
27	2		Local anesthesia techniques (block).	Home works	Data show and white board
28	2		Local anesthesia techniques (discussion).	Oral exam	Data show and white board
29	2		Complication of local anesthesia		

30	2		Complication of extraction.		

4. Course Evaluation

No.	Assessment measurement	Score distribution concerning theoretical lectures	Score distribution concerning laboratories
1	First semester	10%	7.5%
2	Mid year examination (15%)	15%	
3	Second semester	10%	7.5%
4	Final examination (60%)	40%	20%
Total	100%	65%	35%

5. Learning & Teaching Resources

Required textbooks (curricular if any)	1. Contemporary oral and maxillofacial surgery 5th edition 2008. 2. Extraction of teeth. 3- Handbook of Local anesthesia 6th edition 2011.
Main References (sources)	
Recommended Books & References (Scientific Journals, Reports …)	
Websites or Electronic References	

67. Course Title	General human anatomy
68. Course Code	050105
69. Semester/Year	Yearly (first year)
70. Description Preparation Date	2023/2024
71. Available Attendance Form	Lectures & Labs
72. No. of Hours (Total)	30 hours of Theoretical + 60 hours of practical
73. No. of Credits (Total)	4
74. Course Administrator Name	Noora Abdulrazzaq Naji
75. E-mail	noora.ab@albayan.edu.iq

76. Course Objectives		
Knowledge	A1	Enable students to learn about human anatomy, especially the head and neck, and focus on knowing the locations of vital structures (nerves and blood vessels) and their direct relationship in the oral and maxillofacial area and his specialization as a dentist
	A2	Preparing students practically in terms of developing the knowledge gained in human anatomy in his work as a dentist.
	A3	Acquirement full knowledge of the organs of the human body and focus on the head and neck area.
	A4	Developing the student's ability to deal with multiple means of learning.
Skills	B1	Asking orally questions to students through which the student connect the Anatomy material with each other and connect it to student specialty as a dentist.
	B2	Motivating the student through thinking and speed of response in Understanding to facilitate memorizing the material.
	B3	The theoretical lecture depends on the students' daily interaction and develops Their ability to discussion.

	B4	Depending the practical side, means of illustration and explanatory videos, And encouraging the student to connect human anatomy with his work as A dentist.
Values	C1	Thinking about solving problems and how to avoid them.
	C2	Teaching professional ethics.
	C3	Developing the acquired skills of the student in order to become a dentist capable of treating patients and solving problems related to the knowledge of oral and maxillofacial anatomy to avoid their occurrence.

77. Teaching and Learning Strategies

1.	Theoretical lectures using slides on screens.	4.	Practical lessons on anatomical models
2.	Educational films and brief explanatory videos.	5.	
3.	Student discussion groups.	6.	

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78. The Structure of the Course

Week	Hours	RLOs	Topic/Subject Name	Learning Method	Evaluation Method
1	1	Defining Introduction to Human Anatomy Descriptive Anatomic Term	Introduction to Human Anatomy Descriptive Anatomic Terms	Theoretical lecture using Dat Show	Daily Theory Quiz
2	1	Defining Basic Structures: Skin, Fasciae, Muscle, Joints, Ligamen Bursae	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	Theoretical lecture using Dat Show	Daily Theory Quiz
3+4	2	Defining Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	Basic Structures: Bone, Cartilage, Bloc Vessels, Lymphatic System	Theoretical lecture using Dat Show	Daily Theory Quiz
5	1	Defining Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	Basic Structures: Nervous System, Mucous Membranes, Serous Membran	Theoretical lecture using Dat Show	Daily Theory Quiz
6+7	2	Defining Skeletal system of the body Skull :Cranial Bones	Skeletal system of the body: Skull Cranial Bones	Theoretical lecture using Dat Show	Daily Theory Quiz
8+9	2	Defining Skeletal system of the body Skull : Facial Bones	Skeletal system of the body: Skull : Faci Bones	Theoretical lecture using Dat Show	Daily Theory Quiz
10+11	2	Defining External Views of the Skull	External Views of the Skull	Theoretical lecture using Dat Show	Daily Theory Quiz

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12+13	2	Defining * The Cranial Cavity *Major Foramina and Fissures locations and structurespass through Neonatal Skull	*The Cranial Cavity *Major Foramina and Fissures locations and structures pass through Neonatal Skull	Theoretical lecture using Dat Show	Daily Theory Quiz
14+15	2	Defining Skeleton of the Orbital Region, Openings into the Orbital Cavity Skeleton of the External Nose, nasal cavity, Paranasal Sinuses *Auditory ossicles Hyoid bone	*Skeleton of the Orbital Region, Openings into the Orbital Cavity *Skeleton of the* External Nose, nasal cavity, Paranasal Sinuses *Auditory ossicles Hyoid bone	Theoretical lecture using Dat Show	Daily Theory Quiz
16+17	2	Defining The Vertebral Column	The Vertebral Column	Theoretical lecture using Dat Show	Daily Theory Quiz
18+19	2	Defining Structure of the Thoracic Wall *Joints of the Chest Wall *Suprapleural Membrane	*Structure of the Thoracic Wall *Joints of the Chest Wall *Suprapleural Membrane *Diaphragm * Surface Anatomy	Theoretical lecture using Dat Show	Daily Theory Quiz

		*Diaphragm *Surface Anatomy			
20+21	2	Defining Thoracic cavity: Mediastinum, Pleurae, Trachea , Bronchi, Lungs	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	Theoretical lecture using Dat Show	Daily Theory Quiz
22+23+24	3	Defining Pericardium, Heart, Large arteries, veins and nerves of thorax	Pericardium, Heart, Large arteries, veins and nerves of thorax	Theoretical lecture using Dat Show	Daily Theory Quiz
25+26	2	Defining *Bones of the Shoulder (Pectoral girdle) girdles *Bones of the Upper extremities	*Bones of the Shoulder (Pectoral girdle) girdles *Bones of the Upper extremities	Theoretical lecture using Dat Show	Daily Theory Quiz
27+28	2	Defining *Bones of the Pelvic girdle *Bones of the Lower extremities	*Bones of the Pelvic girdle *Bones of the Lower extremities	Theoretical lecture using Dat Show	Daily Theory Quiz
29+30	2	Defining Abdominal cavity and organs	Abdominal cavity and organs	Theoretical lecture using Dat Show	Daily Theory Quiz

79. Course Evaluation
First semester + second semester = 25 degrees 7.5 marks (practical, attendance and oral questions) + 5 degrees of theoretical daily exams (per semester) Mid-year exam score = 15 final exam score = 60 (40 theoretical + 20 practical) Grand Total = 100%

80. Learning & Teaching Resources	
Required textbooks (curricular if any)	–
Main References (sources)	**Snell's clinical anatomy 10th edition** **Netter's head and neck anatomy 3rd edition** **Gray's anatomy for students 4th edition** **Atlas of clinical cross anatomy 2nd edition**
Recommended Books & References (Scientific Journals, Reports …)	**Read recent research in academic publishing journals**
Websites or Electronic References	**Google scholar , research gates**

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Course Description

1. Course Title	**Dental anatomy**
2. Course Code	050101
3. Semester/Year	**annual**
4. Description Preparation Date	**2023-2024**
5. Available Attendance Form	**Lectures and Laboratories**
6. No. of Hours (Total)	**60 of theory and 60 hours of practical**
7. No. of Credits (Total)	**2**
8. Course Administrator Name	**Ali Ahmed Abdel Mutlak**
9. E-mail	ali.abm@albayan.edu.iq

10. Course Objectives

Knowledge	A1	Enable students to know the external anatomy of teeth
	A2	Enabling students to number teeth according to different numbering systems
	A3	Enable students to sculpt teeth on wax molds
	A4	
Skills	B1	Asking brainstorming questions through which the student can link the study materials together and link them to the medical and health reality.
	B2	developing skills Sculpture and drawing related to dental anatomy
	B3	Motivating the student through the style of expression and thinking and the speed of communication and response
	B4	Urging the student to solve problems and possess distinctive thinking
Values	C1	Professional preparation and encouraging the student to have positive behavior in his public life
	C2	Scientific preparation and urging the student to communicate in other fields of science
	C3	Cultural preparation and refining the student's personality
	C4	Utilizing the acquired skills so that the student becomes a dentist capable of treating patients

11. Teaching and Learning Strategies

1.	Lectures using the program data show and power point	**4.**	E-learning
2.	Educational films	**5.**	Blackboards
3.	Display screens	**6.**	Student discussion groups.

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12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
Theoretical					
1	**2**	**Introduction About dental anatomy**	**introduction**	**Display data show and blackboard**	**Daily exam**
2	**2**	**Introduction About dental anatomy**	**introduction**	**Display data show and blackboard**	**Daily exam**
3	**2**	**Knowing the method of numbering baby and permanent teeth**	**Numbering systems**	**Display data show and blackboard**	**Daily exam**
4	**2**	**Knowing the method of numbering baby and permanent teeth**	**Numbering systems**	**Display data show and blackboard**	**Daily exam**
5	**2**	**Knowing the anatomical features of teeth, their names and shapes**	**Anatomical landmarks**	**Display data show and blackboard**	**Daily exam**
6	**2**	**Knowing the anatomical features of teeth, their names and shapes**	**Anatomical landmarks**	**Data show and blackboard display + explanatory films**	**Daily exam**
7	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Maxillary Central Incisor	**Data show and blackboard display + explanatory films**	**Daily exam**
8	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Maxillary Central Incisor	**Data show and blackboard display + explanatory films**	**Daily exam**
9	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Maxillary Lateral Incisor	**Data show and blackboard display + explanatory films**	**Daily exam**

10	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Maxillary Lateral Incisor	**Data show and blackboard display + explanatory films**	**Daily exam**
11	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Mandibular Incisors	**Data show and blackboard display + explanatory films**	**Daily exam**
12	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Mandibular Incisors	**Data show and blackboard display + explanatory films**	**Daily exam**
13	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Mandibular Incisors	**Data show and blackboard display + explanatory films**	**Daily exam**
14	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Canines	**Data show and blackboard display + explanatory films**	**Daily exam**
15	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Canines	**Data show and blackboard display + explanatory films**	**Daily exam**
16	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Maxillary Premolars	**Data show and blackboard display + explanatory films**	**Daily exam**
17	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Maxillary Premolars	**Data show and blackboard display + explanatory films**	**Daily exam**
18	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Mandibular First Premolars	**Data show and blackboard display + explanatory films**	**Daily exam**
19	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Mandibular First Premolars	**Data show and blackboard display + explanatory films**	**Daily exam**
20	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Mandibular Second Premolar	**Data show and blackboard display + explanatory films**	**Daily exam**

21	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Maxillary First Molar Permanent maximum second and third molars	**Data show and blackboard display + explanatory films**	**Daily exam**
22	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Maxillary First Molar Permanent maximum second and third molars	**Data show and blackboard display + explanatory films**	**Daily exam**
23	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Mandibular First Molar	**Data show and blackboard display + explanatory films**	**Daily exam**
24	**2**	**Identify the external appearance of the tooth by studying each surface of the tooth**	Permanent Mandibular Second and third molars	**Data show and blackboard display + explanatory films**	**Daily exam**
25	**2**	**Identify the stages of tooth growth and the time of their eruption**	Tooth development	**Data show and blackboard display + explanatory films**	**Daily exam**
26	**2**	**Identify the stages of tooth growth and the time of their eruption**	Tooth development	**Data show and blackboard display + explanatory films**	**Daily exam**
27	**2**	**Learn about the parts of the tooth nerve and their names**	Pulp Cavities	**Data show and blackboard display + explanatory films**	**Daily exam**
28	**2**	**Learn about the parts of the tooth nerve and their names**	Pulp Cavities	**Data show and blackboard display + explanatory films**	**Daily exam**
29	**2**	**Learn about the mechanism of dental occlusion and the function of teeth in the anatomy of teeth and gums**	Occlusion and physiologic form of teeth and periodontium	**Data show and blackboard display + explanatory films**	**Daily exam**
30	**2**	**Learn about the mechanism of dental occlusion and the function**	Occlusion and physiologic form of teeth and periodontium	**Display data show and blackboard**	**Daily exam**

		of teeth in the anatomy of teeth and gums			
Practical					
1	**2**	**Introduction About dental anatomy**	Introduction to dental anatomy and sculpting tools	**Display data show and blackboard**	**Evaluation method**
2	**2**	**Knowing the method of numbering baby and permanent teeth**	Numbering systems.	**Display data show and blackboard**	**Daily exam**
3	**2**	**Know how to sculpt a cube**	Practical demonstration of cube sculpting (1cm*1cm*1cm)	**Data display, blackboard and practical sculpture**	**Daily exam**
4	**2**	**Knowledge of the anatomical parts of teeth**	-Introduction to anatomical landmarks on dental models. -Cube sculpting.	**Display data show and blackboard**	**Homework**
5	**2**	**Knowledge of anatomy and how to draw and dissect the tooth**	Describe and sculpt the verbal aspect ofP.Max. Right central incisor.	**Data display, blackboard and practical sculpture**	**Daily exam**
6	**2**	**Knowledge of anatomy and how to draw and dissect the tooth**	Describe and sculpt the medial aspect ofP.Max. Right central incisor.	**Data show and blackboar display + explanatory filn and practical sculpture**	**Homework**
7	**2**	**Knowledge of anatomy and how to draw and dissect the tooth**	Description, carving and finishing of the cutting side of Permanent Max. Right central incisor.	**Data show and blackboar display + explanatory filn and practical sculpture**	**Homework**
8	**2**	**Developing students' ability to draw and sculpt teeth**	Hands-on carvingP.Max. Central right The incisor	**practical training**	**Homework**
9	**2**	**Assessing students' ability to sculpt and draw teeth**	Practical exam. From sculptureP. Max. Central right	**practical training**	**Homework**

			The incisor		
10	2	**Knowledge of anatomy and how to draw and dissect the tooth**	Describe and model the oral and genital aspects ofP. the above. Right dogs.	**Data show and blackboar display + explanatory filn and practical sculpture**	**An in-person practical exam**
11	2	**Knowledge of anatomy and how to draw and dissect the tooth**	Description, carving and finishing of the cutting side ofP the above. Right dogs	**Data show and blackboar display + explanatory filn and practical sculpture**	**Homework**
12	2	**Developing students' ability to draw and sculpt teeth**	Hands-on carvingP.Max. Right dogs	**practical training**	**Homework**
13	2	**Assessing students' ability to sculpt and draw teeth**	Practical exam. SculptureP. Max. Right dogs.	**practical training**	**Homework**
14	2	**Assessing students' ability to sculpt and draw teeth**	Mid-year practical exam for dental carving.	**practical training**	**An in-person practical exam**
15	2	**Knowledge of anatomy and how to draw and dissect the tooth**	Describe and sculpt the buccal and mesial aspects B Max. Right first premolar.	**Data show and blackboar display + explanatory filn and practical sculpture**	**Practical exam**
16	2	**Knowledge of anatomy and how to draw and dissect the tooth**	Description, carving and finishing of the occlusal side B Max. Right first premolar	**Data show and blackboar display + explanatory filn and practical sculpture**	**Homework**
17	2	**Developing students' ability to draw and sculpt teeth**	Hands-on carving P.Max. Right first premolar	**practical training**	**Homework**
18	2	**Assessing students' ability to sculpt and draw teeth**	Practical exam. From sculptureP. Max. Right first premolar	**practical training**	**Homework**
19	2	**Knowledge of anatomy and how to draw and dissect the tooth**	Describe and sculpt the buccal and mesial aspects B. Mand. Right first premolar.	**Data show and blackboar display + explanatory filn and practical sculpture**	**An in-person practical exam**

20	**2**	**Knowledge of anatomy and how to draw and dissect the tooth**	Description, carving and finishing of the occlusal side B. Mand. Right first premolar.	**Data show, blackboard a practical sculpture + explanatory films**	**Homework**
21	**2**	**Developing students' ability to draw and sculpt teeth**	Practical training for carvingP.Mand. First right Premolars	**practical training**	**Homework**
22	**2**	**Assessing students' ability to sculpt and draw teeth**	Practical exam. SculptureP. Mand. Right first premolar	**practical training**	**Homework**
23	**2**	**Knowledge of anatomy and how to draw and dissect the tooth**	Describe and sculpt the buccal and mesial aspects of the right first molar.	**Data show and blackboar display + explanatory filn and practical sculpture**	**An in-person practical exam**
24	**2**	**Knowledge of anatomy and how to draw and dissect the tooth**	Description, carving and finishing of the occlusal side From P. Max. Right first molar.	**Data show and blackboar display + explanatory filn and practical sculpture**	**Homework**
25	**2**	**Developing students' ability to draw and sculpt teeth**	Hands-on carving P.Max. Right first molar.	**practical training**	**Homework**
26	**2**	**Knowledge of anatomy and how to draw and dissect the tooth**	Describe and sculpt the buccal and mesial aspects B. Mand. Right first molar	**Data show and blackboar display + explanatory filn and practical sculpture**	**Practical exam**
27	**2**	**Knowledge of anatomy and how to draw and dissect the tooth**	Description, carving and finishing of the occlusal side P. Mand first molar/hands-on sculpting p. Mand first molar.	**Data show and blackboar display + explanatory filn and practical sculpture**	**Homework**
28	**2**	**Knowledge of anatomy and how to draw and dissect the tooth**	Describe and sculpt the buccal and mesial aspects B. Mand. Right first molar	**Data show and blackboar display + explanatory filn and practical sculpture**	**Daily exam**

29	**2**	**Assessing students' ability to sculpt and draw teeth**	Practical examination of Mand. First right P. carving Molly	**practical training**	**Homework**
30	**2**	**Assessing students' ability to sculpt and draw teeth**	Final oral and practical examination of dental carving	**practical training**	**Practical exam**

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13. Course Evaluation	
	1.Daily exams for theoretical subjects 2. Practical exam in the laboratory 3.Oral questions 4. Mid-year exam 5. Final exam
theoretical 10% practical 15%	First semester + second semester 25%
Theoretical 15%	Half year 25%
Theoretical 35% Practical 25%	Final exam 50%
Theoretical 60% practical 40%	**100%**

14. Learning & Teaching Resources	
Required textbooks (curricular if any)	**WHEELER'S DENTAL ANATOMY, PHYSIOLOGY, AND OCCLUSION,9th edition,2010**
Main References (sources)	**dental anatomy and morphology**
Recommended Books & References (Scientific Journals, Reports …)	**Make a drawing of teeth and their external anatomy and view drawings of dental anatomy in the Dental Anatomy Atlas**
Websites or Electronic References	**Google scholar, research gates**

Course Description (1)

1. Course Title	Prosthodontics
2. Course Code	050201
3. Semester/Year	Yearly
4. Description Preparation Date	2023-2024
5. Available Attendance Form	Lectures and Laboratory

6. No. of Hours (Total)	Theory: 30 hours Practical: 120 hours
7. No. of Credits (Total)	6
8. Course Administrator Name	Lect. Dr. Zainab Sabah Abdulhasan
9. E-mail	zainab.s@albayan.edu.iq

10. Course Objectives

Knowledge	**A1**	1. The student must have seen with his own eyes and become familiar with dental devices a tools
	A2	2. The student gets to know different types of laboratory materials and how to use them
	A3	3. The student must have learned to use laboratory equipment
	A4	4. Learn how to evaluate the mistakes that dental technicians may make
Skills	**B1**	1. Teaching the student methods of laboratory and environmental cleanliness
	B2	2. Teach the student to wear lab coat, masks, and gloves while working
	B3	3. Description of tools, devices, and materials related to the subject of manufactur removable denture
	B4	
Values	**C1**	Professional preparation and encouraging the student to have positive behavior in his public life
	C2	Teamwork
	C3	Planning and organization
	C4	Skill in identifying dental prosthetic devices

11. Teaching and Learning Strategies

1.	Lectures using data show and power point	**4.**	Educational films
2.	Display screens	**5.**	Smart boards
3.	E-learning	**6.**	Practical application in the laboratory

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12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	1	Introduction	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
2	1	Anatomical landmarks	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
3	1	Anatomical landmarks	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
4	1	Complete Denture Impression	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
5	1	Complete Denture Impression	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
6	1	Complete Denture Impression	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
7	1	Record Base	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
8	1	Occlusion Rims	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
9	1	Anatomy And Physiology of Temporomandibular Joint	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations

10	1	Anatomy And Physiology of Temporomandibular Joint	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
11	1	Maxillomandibular relation	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
12	1	Methods of Recording Vertical Relati	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
13	1	Horizontal Jaw Relation	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
14	1	Dental Articulators	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
15	1	Face – Bow	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
16	1	Mounting	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
17	1	Selection of Artificial Teeth	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
18	1	Selection of Posterior Teeth	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
19	1	Arrangement of Artificial Teeth	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
20	1	Arrangement of Posterior Teeth	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
21	1	Waxing And Carving	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations

22	1	Complete Denture Occlusion	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and fina examinations
23	1	Complete Denture Occlusion	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and fina examinations
24	1	Processing of the Denture (Flasking	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and fina examinations
25	1	Finishing and Polishing of Complet Denture	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and fina examinations
26	1	Occlusal Correction	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and fina examinations
27	1	Repair of Complete Denture	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and fina examinations
28	1	Repair of Complete Denture	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and fina examinations
29	1	Relining and Rebasing	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and fina examinations
30	1	Relining and Rebasing	Prosthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations

13. Course Evaluation		
1	First + second semester 25%	Theory 10% Practical 15%
2	Midyear examination 15%	Theory 15%
3	Final examination	Theory 40% Practical 20%
Total		**100%**

14. Learning & Teaching Resources	
Required textbooks (curricular if any)	1. Dental laboratory technology for removable prosthodontics 2. Textbook of complete denture
Main References (sources)	
Recommended Books & References (Scientific Journals, Reports …)	Make periodic reports and read recent research in reputable journals
Websites or Electronic References	PubMed, Scopus, Elsevier, Google Scholar, Research Gates

Course Description (1)

1. Course Title	**DENTAL MATERIAL**
2. Course Code	050202
3. Semester/Year	**Annual**
4. Description Preparation Date	**2023-2024**
5. Available Attendance Form	**Lectures and Labs**
6. No. of Hours (Total)	**30 h theory and 60 h laboratory**
7. No. of Credits (Total)	**4**
8. Course Administrator Name	**Hasanain Kahtan Abdulkhalik**
9. E-mail	
10. Course Objectives	

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The objectives of the course are to enable students of the Grade 2 at the college of dentistry to have a proper academic approach to all dental materials that are used in dentistry field (which includes the sufficient knowledge about the properties of these materials and their manipulation and their advantages and disadvantages if present.		
Knowledge	A1	Develop student information on dental materials specifications and properties.
	A2	To acquire experience and information that will help him to identify the dental materia
	A3	Increase students knowledge of different types of every dental material.
	A4	Learn how to assess the risks of improper use of the dental materials.
Skills	B1	Acquiring skills in determining the dental materials and their proper selction and use.
	B2	Identification of correct implementation of the dental materials that lead to present proper service for the patient.
	B3	Professional preparation and promotion of positive behavior in public life
	B4	Scientific preparation and encouragement of students to communicate in other fields science.
Values	C1	Theoretical and laboratory daily and semester examinations
	C2	Mid-year examination
	C3	Laboratory and theoretical final examination
	C4	

11. Teaching and Learning Strategies

1.	Lectures using Data show and power point.	4.	Electronic education
2.	Educational films	5.	Smart probes
3.	Monitors	6.	Practical application in the lab

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12. The Structure of the Course

Week	Hours	RLOs	Topic/Subject Name	Learning Method	Evaluation Method
1	1	**Dental material**	**Introduction and physical proper of dental material**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
2	1	**Dental material**	**Mechanical properties**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
3	1	**Dental material**	**Gypsum materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
4	1	**Dental material**	**Gypsum materials**	Theoretical lecture using Po Point	Quizzes, monthly, mid-year and f examinations
5	1	**Dental material**	**Impression materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
6	1	**Dental material**	**Impression materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
7	1	**Dental material**	**Impression materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
8	1	**Dental material**	**Impression materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
9	1	**Dental material**	**Impression materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
10	1	**Dental material**	**Waxes**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
11	1	**Dental material**	**Waxes**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
12	1	**Dental material**	**Polymers**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
13	1	**Dental material**	**Polymers**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
14	1	**Dental material**	**Investment materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
15	1	**Dental material**	**Cement materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
16	1	**Dental material**	**Temporary filling**	Theoretical lecture u Power Point	

17	1	**Dental material**	**Metal and metal alloy**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
18	1	**Dental material**	**Metal and metal alloy**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
19	1	**Dental material**	**Metal and metal alloy**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
20	1	**Dental material**	**Metal and metal alloy**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
21	1	**Dental material**	**Filling materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
22	1	**Dental material**	**Filling materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
23	1	**Dental material**	**Filling materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
24	1	**Dental material**	**Filling materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
25	1	**Dental material**	**Preventive materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
26	1	**Dental material**	**Root canal filling mater (obturating materials)**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
27	1	**Dental material**	**Finishing and polishing material**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
28	1	**Dental material**	**Relining material**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
29	1	**Dental material**	**Implant materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations
30	1	**Dental material**	**Maxillofacial materials**	Theoretical lecture u Power Point	Quizzes, monthly, mid-year and f examinations

13. Course Evaluation

Distribution of the score out of 100 according to the tasks assigned to the student, such as daily preparation, daily exams, oral, monthly, written and records.

For first and second semesters 25 degrees (15 practical + 10 theoretical) and mid-year 15 degrees and final examination 60 degrees (40 theoretical + 20 practical)

14. Learning & Teaching Resources

Required textbooks (curricular if any)	**Craig's Restorative Dental Materials.** Sakaguchi, R., & Powers, J. (2019). Elsevier Inc. https://doi.org/10.1016/C2010-0-65754-3 **Phillips' science of dental materials** Authors:Kenneth J. Anusavice, Ralph W. Phillips, Chiayi Shen, H. Ralph Rawls Publisher Print Book, English, ©2013 Edition:12th ed formats and editions Publisher: Elsevier/Saunders, St. Louis, Mo., ©2013
Main References (sources)	
Recommended Books & References (Scientific Journals, Reports …)	Make periodic reports and read recent research in reputable journals
Websites or Electronic References	PubMed, Scopus, Elsevier, Google Scholar, Research Gates

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Course Description (1)

1. Course Title	**Embryology and oral histology**
2. Course Code	050203
3. Semester/Year	**Annual for third grade**
4. Description Preparation Date	**2023-2024**
5. Available Attendance Form	**Weekly**
6. No. of Hours (Total)	**60 hours theory and 60 hours practical**
7. No. of Credits (Total)	**Theory:4 and laboratory 2**
8. Course Administrator Name	**Hawraa Amer Abdullah**
9. E-mail	**hawraamer.ha@gmail.com**

10. Course Objectives

Knowledge	**A1**	**Conveying a general idea about the process of fertilization and embr formation.**
	A2	**Students' understanding of the stages of tooth formation and methods of dental tissue development.**
	A3	**Increasing students' knowledge of the histological anatomy of the tooth.**
	A4	**For the student to understand the differences in composition between different tissues of the tooth.**
Skills	**B1**	**Identify the stages of embryonic formation.**
	B2	**Acquiring skills in classifying the different tissues of the tooth.**
	B3	**Identify the fetal causes of dental disease.**
	B4	
Values	**C1**	**Preparing the student and urging him to use various references to understand the curriculum decisions.**
	C2	**Scientific preparation and urging the student to use modern technologies to understand the curriculum decisions.**
	C3	**Scientific and practical preparation to understand the genetic causes of dental diseases.**
	C4	**Utilizing the acquired skills so that the student can work in groups and use scientific terminology within the limits of the course.**

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11. Teaching and Learning Strategies			
1.	lectures using power point.	4.	discuss topics with students.
2.	Practical lessons.	5.	
3.	Preparing research papers.	6.	

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12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	2	**Embryogenesis: first week, ovulation, fertilization and implantation**	E&O	**Theoretical lecture**	**Quiz**
2	2	**2nd week, Bilaminar germ layer**	E&O	**Theoretical lecture**	**Quiz**
3	2	**3rd week trilaminar germ layer: gastrulation and neurulation**	E&O	**Theoretical lecture**	**Quiz**
4	2	**Development of head and neck (pharyngeal arch, pouch & cleft)**	E&O	**Theoretical lecture**	**Quiz**
5	2	**Development of face and anomalies**	E&O	**Theoretical lecture**	**Quiz**
6	2	**Development of tongue and anomalies**	E&O	**Theoretical lecture**	**Quiz**
7	2	**Development of palate and anomalies**	E&O	**Theoretical lecture**	**Quiz**
8	2	**Slide preparation**	E&O	**Theoretical lecture**	**Quiz**
9	2	**Tooth development and developmental disturbances of teeth**	E&O	**Theoretical lecture**	**Quiz**
10	2	**Dentinogenesis and dentin structure**	E&O	**Theoretical lecture**	**Quiz**
11	2	**Amelogenesis, Enamelstructures**	E&O	**Theoretical lecture**	**Quiz**
12	2	**Clinical consideration for dentin and enamel**	E&O	**Theoretical lecture**	**Quiz**
13	2	**Dental Pulp**	E&O	**Theoretical lecture**	**Quiz**
14	2	**Cementum and clinical consideration**	E&O	**Theoretical lecture**	**Quiz**
15	2	**Root formation& Cementogenesis**	E&O	**Theoretical lecture**	**Quiz**
16	2	**Periodontal ligaments**	E&O	**Theoretical lecture**	**Quiz**
17	2	**Principles fiber of pdl and gingival fibers**	E&O	**Theoretical lecture**	**Quiz**
18	2	**Alveolar bone**	E&O	**Theoretical lecture**	**Quiz**
19	2	**Bone formation and resorbtion**	E&O	**Theoretical lecture**	**Quiz**
20	2	**Proteins involve in mineralization of bone and dentin**	E&O	**Theoretical lecture**	**Quiz**

21	2	**Oral mucosa and their types**	E&O	**Theoretical lecture**	**Quiz**
22	2	**Gingiva and dentogingival junction**	E&O	**Theoretical lecture**	**Quiz**
23	2	**Eruption of teeth**	E&O	**Theoretical lecture**	**Quiz**
24	2	**Shedding of teeth**	E&O	**Theoretical lecture**	**Quiz**
25	2	**Salivary gland**	E&O	**Theoretical lecture**	**Quiz**
26	2	**Salivary proteins**	E&O	**Theoretical lecture**	**Quiz**
27	2	**TMJ**	E&O	**Theoretical lecture**	**Quiz**
28	2	**Maxillary sinus**	E&O	**Theoretical lecture**	**Quiz**
29	2	**Histochemistry**	E&O	**Theoretical lecture**	**Quiz**
30	2	**Age changes of soft and hard tissues**	E&O	**Theoretical lecture**	**Quiz**

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13. Course Evaluation
توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ **For first and second semester 25 degree (10 theoretical +15 practical)** **For mid-year (15 degree theoretical)** **For final exam (60 degree theoretical + 40 practical)**

14. Learning & Teaching Resources	
Required textbooks (curricular if any)	**1.Ten cate's oral histology development, structures and function. Antonio Nanci. 9th edition. 2017, Elsevier.** **2. Orban's oral histology and embryology. Kumar. 14th edition. 2015, Elsevier.**
Main References (sources)	
Recommended Books & References (Scientific Journals, Reports …)	**1. Electronic references and websites** **2. Scientific and practical journals and reports**
Websites or Electronic References	**PubMed, Scopus, Elsevier, Google Scholar**

Course Description (1)

1. Course Title	**Prosthodontics**
2. Course Code	050301
3. Semester/Year	**Yearly**
4. Description Preparation Date	**2024-2023**
5. Available Attendance Form	**Lectures and laboratory**
6. No. of Hours (Total)	**Theory : 30 Clinical: 60**
7. No. of Credits (Total)	**4**
8. Course Administrator Name	**Assist.Lec. Mohammed Ridha Hassan**
9. E-mail	**m.hassan@albayan.edu.iq**

10. Course Objectives		
Kn	A1	Acquiring experience and information to help identify the patient needs and reasons

	A2	Development of motivational interviewing skills to encourage patients to take remedial measures
	A3	Increased knowledge of students to determine the patients need for a partial set of teeth
	A4	Increased knowledge of students about constructing a partial set of teeth
Skills	B1	Acquiring skills in clinical dental examinations and partially identifying der compensation
	B2	Development of motivational interviewing skills to encourage patients to maint their partial dental set
	B3	Identification of indicators and techniques for application of partial denture s treatments
	B4	Acquiring skills in treatment planning for partially edentulous patients
Values	C1	Catalyze students through expression, reflection, speed of communication and response
	C2	Inducing students to solve problems and to have special thinking
	C3	Reliance of the lecture on student interaction and mental storm
	C4	Preparing the student to be a dentist capable of treating patients

11. Teaching and Learning Strategies

1.	**Lectures using Data show and power point.**	4.	**Electronic education**
2.	**Educational films**	5.	**Smart probes**
3.	**Monitors**	6.	**Practical application in the clinic**

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12. The Structure of the Course

Week	Hours	RLOs	Topic/Subject Name	Learning Method	Evaluation Method
1	1	Data show presentation	Introduction to Removable Partial Dentures	Prosthodontics	Theoretical lecture using Power Point
2	1	Data show presentation	Classification of Partially Edentulous Arches	Prosthodontics	Theoretical lecture using Power Point
3	1	Data show presentation	Surveying	Prosthodontics	Theoretical lecture using Power Point
4	1	Data show presentation	Surveying (continue)	thodontics	Theoretical lecture using Power Point
5	1	Data show presentation	Component Parts of a Removable Partial Denture	Prosthodontics	Theoretical lecture using Power Point
6	1	Data sh presentation	Maxillary Major Connectors	Prosthodontics	Theoretical lecture using Power Point
7	1	Data show presentation	Mandibular Major Connectors	Prosthodontics	Theoretical lecture using Power Point
8	1	Data show presentation	Minor Connectors	Prosthodontics	Theoretical lecture using Power Point
9	1	Data show presentation	Rests and Rest Seats	Prosthodontics	Theoretical lecture using Power Point
10	1	Data show presentation	Retention and Removable Partial Denture Retainers	Prosthodontics	Theoretical lecture using Power Point
11	1	Data show presentation	Extra Coronal Direct Retainers (Types of clasp assemblies)	Prosthodontics	Theoretical lecture using Power Point
12	1	Data show presentation	Intracoronal Direct Retainers (Internal Attachments, Precisi Attachments	Prosthodontics	Theoretical lecture using Power Point
13	1	Data show presentation	Stress-Breakers (Stress Equalizers)	Prosthodontics	Theoretical lecture using Power Point
14	1	Data show presentation	Indirect Retainers	thodontics	Theoretical lecture using Power Point
15	1	Data show presentation	Indirect Retainers (continue)	Prosthodontics	Theoretical lecture using Power Point
16	1	Data show presentation	Laboratory procedures in RPD construction: Blockout and Relief	Prosthodontics	Theoretical lecture using Power Point
17	1	Data show presentation	Laboratory procedures in RPD construction: Duplication and	Prosthodontics	Theoretical lecture using Power Point

			Refractory Cast Construction		
18	1	Data show presentation	Laboratory procedures in RPD construction: Wax Pattern	Prosthodontics	Theoretical lecture using Power Point
19	1	Data show presentation	Laboratory procedures in RPD construction: Casting and Finishing	Prosthodontics	Theoretical lecture using Power Point
20	1	Data show presentation	Denture Base in RPD	Prosthodontics	Theoretical lecture using Power Point
21	1	Data show presentation	Record Bases, Occlusion Rims, Mounting and Arrangement of Teeth	Prosthodontics	Theoretical lecture using Power Point
22	1	Data show presentation	Biomechanics of Removable Partial Dentures	Prosthodontics	Theoretical lecture using Power Point
23	1	Data show presentation	Biomechanics of Removable Partial Dentures (continue)	Prosthodontics	Theoretical lecture using Power Point
24	1	Data show presentation	Principles of Removable Partial Denture Design	Prosthodontics	Theoretical lecture using Power Point
25	1	Data show presentation	Principles of Removable Partial Denture Design (continue	Prosthodontics	Theoretical lecture using Power Point
26	1	Data show presentation	Clinical Phases of Removable Partial Denture Constructior	Prosthodontics	Theoretical lecture using Power Point
27	1	Data show presentation	Acrylic Removable Partial Dentures	Prosthodontics	Theoretical lecture using Power Point
28	1	Data show presentation	Flexible Removable Partial Dentures	Prosthodontics	Theoretical lecture using Power Point
29	1	Data show presentation	Repairs and Additions to Removable Partial Dentures	Prosthodontics	Theoretical lecture using Power Point
30	1	Data show presentation	Digitally Designed & Fabrication Process of RPD Framewo Using CAD/CAM System	Prosthodontics	Theoretical lecture using Power Point

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13. Course Evaluation	
توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ	
14. Learning & Teaching Resources	
Required textbooks (curricular if any)	McCracken's Removable Partial Prosthodontics13th Edition - November 3, 2015 ▪ Robert, W. L. (2018) Removable Partial Denture Manual. Dalhousie University
Main References (sources)	
Recommended Books & References (Scientific Journals, Reports …)	**Make periodic reports and read recent research in reputable journals**
Websites or Electronic References	**PubMed, Scopus, Elsevier, Google Scholar, Research Gates**

Course Description (1)

15. Course Title	**Conservative (Operative)**
16. Course Code	**050302**
17. Semester/Year	**Annual**
18. Description Preparation Date	**2023/2024**
19. Available Attendance Form	**Lectures + laboratories**
20. No. of Hours (Total)	**30 hours (theoretical) + 60 hours (practical)**
21. No. of Credits (Total)	**8**
22. Course Administrator Name	**zainab tariq abdulkadhim**

23. E-mail	zainab.tariq@albayan.edu.iq

24. Course Objectives: Developing the manual skills of primary studies students in the third stage for the period before they enter clinical work in clinics on solid scientific foundations, acquiring more skills, knowledge and learning, and making them capable of dealing with complex clinical cases of dental fillings and treating them with the latest scientific methods

Knowledge	A1	Gaining experience and information that will help him identify the disease and kn its causes
	A2	Developing motivational interviewing skills to encourage patients to take prevent measures.
	A3	Increasing students' knowledge of methods for examining teeth and detecting car and gingivitis
	A4	Learn how to assess patients' risks of dental disease based on factors such as o hygiene, dietary habits, tobacco use, and chronic diseases.
Skills	B1	Acquire skills in conducting clinical dental examinations for early detection of to decay.
	B2	Developing motivational interviewing skills to encourage patients to take prevent measures .
	B3	Identify the indications and techniques for applying fluoride treatments to strengt tooth enamel and prevent caries
	B4	
Values	C1	Professional preparation and encouraging the student to have positive behavior his public life
	C2	Scientific preparation and urging the student to communicate in other fields science
	C3	Cultural preparation and refining the student's personality
	C4	Utilizing the acquired skills so that the student becomes a dentist capable of treati patients

25. Teaching and Learning Strategies			
1.	Lectures using data show and power point	4.	E–learning
2.	Educational films	5.	Smart boards
3.	Display screens	6.	

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26. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	1	**Definition of operative dentistry**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
2	1	**Definition of operative dentistry**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
3	1	**Instruments and general instrumentation of cavity preparation**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
4	1	**Instruments and general instrumentation of cavity preparation**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
5	1	**Sterilization of operational instruments**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
6	1	**Sterilization of operational instruments**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
7	1	**Amalgam cavity preparations for class I**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
8	1	**Amalgam cavity preparations for class I**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
9	1	**Amalgam cavity preparations for class II**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
10	1	**Amalgam cavity preparations for class II**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams

11	1	**Amalgam cavity preparations for class II (MOD)**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
12	1	**Amalgam cavity preparations for class II (MOD)**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
13	1	**Amalgam cavity preparations for class III and class V**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
14	1	**Amalgam cavity preparations for class III and class V**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
15	1	**Cavity liners and cement bases (part 1)**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
16	1	**Cavity liners and cement bases (part 1)**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
17	1	**Cavity liners and cement bases (part 2)**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
18	1	**Cavity liners and cement bases (part 2)**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
19	1	**Dental amalgam alloy (material)**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
20	1	**Dental amalgam alloy (material)**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
21	1	**Complex amalgam restoration**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
22	1	**Complex amalgam restoration**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
23	1	**Failures in amalgam restorations**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
24	1	**Failures in amalgam restorations**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams

25	1	**Tooth colored restorations (composite)**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
26	1	**Tooth colored restorations (composite)**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
27	1	**Cavity preparation for anterior restorations**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
28	1	**Cavity preparation for anterior restorations**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
29	1	**Resin material**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
30	1	**Resin material**	**Operative**	A theoretical lecture using Power Point	Short, semester, mid-year and final exams

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27. Course Evaluation

توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ

Grade distribution	Evaluation methods
theoretical 3% Clinical 22%	First semester + second semester 25%
Theoretical 15%	half year 15%
%40 Theoretical Clinical 20%	Final exam 60%
Theoretical 50% Clinical 50%	**100%**

28. Learning & Teaching Resources

Required textbooks (curricular if any)	**Walmsleyetal , fundamental in operative dentistry**
Main References (sources)	1. Summitt's fundamentals of operative dentistry: A contemporary approach. 4th edition . 2.Art and science of operative dentistry 7th edition
Recommended Books & References (Scientific Journals, Reports …)	Working on ghost laboratory heads
Websites or Electronic References	**Google scholar**

جامعة البيان

Course Description (1)

1. Course Title	Community Dentistry
2. Course Code	050304
3. Semester/Year	Annual
4. Description Preparation Date	2024-2023
5. Available Attendance Form	Weekly
6. No. of Hours (Total)	30 hours theory and 60 hours practical
7. No. of Credits (Total)	120 Credits
8. Course Administrator Name	Ghufran Adil Hasan
9. E-mail	Ghufran.adil@albayan.edu. iq

10. Course Objectives

Knowledge	**A1**	Preparing dental students to be maintainers of community oral and dental health.
	A2	Students know how to protect society from tooth decay and gum disease and maintain oral health
	A3	Knowing the methods for conducting statistics on tooth decay, common oral and gum diseases, and the conditions and areas of their spread.
	A4	
Skills	**B1**	Acquire skills in conducting clinical dental examinations for early detection of tooth decay.
	B2	Identify the indicators and application techniques for preventing tooth decay and common oral and gum diseases
	B3	Students are assigned to groups to undertake a comprehensive educational program for community dentistry
	B4	
Values	**C1**	Urging the student to have positive behavior in his public life
	C2	Urging the student to communicate in other fields of science
	C3	Cultural preparation and refining the student's personality
	C4	Urging the student to employ the acquired skills in order to become a dentist capable of treating patients

11. Teaching and Learning Strategies

1.	Gaining experience and information that will help him identify tooth decay and gum disease and find out their causes	**4.**	

2.	Increase students' awareness and sense of responsibility towards community oral health and dental public health principles and activities.	**5.**	
3.	Applications of epidemiology and biostatistics in dental public health	**6.**	

12.Curriculum structure

Week	Hours	Subject name	The outcomes of learning	Learning method (hours)	Assessment Method
1	**1**	Dental public health	- Dental public health -Public health definition. - Dental Public health definition. - Community Dentistry. - Dental public health practitioners. - Public health impact of dental disease. – Tools of dental public health. 1-Epidemiology. 2-Biostatistics. 3-Social sciences. 4-Principles of administration. 5-Preventive dentistry	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
2	**1**	Dental public care	-Dental public care - Steps in planning dental care for the patient - Steps in planning dental care for the community - Similarities between personal and community health care: - Differences between private dental practice and public health dentistry	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
3	**1**	epidemiology	- Objectives of epidemiology. - Components of epidemiological study. - Essential steps in an epidemiological study. - Hypothesis. - Population at risk - Morbidity - Measurements of disease frequency. - Epidemiological approach. - Measurement tools in epidemiology.	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams

4	**1**	Epidemiological studies	Types of Epidemiological studies: 1-Observational studies Types of observational studies - Descriptive studies. - Analytical studies. Case control studies Cohort studies Ecological studies	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
5	**1**	Experimental studies	-Intervention Types of experimental studies	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
6	**1**	Epidemiology of dental caries	- Definition of dental caries - Epidemiology -Etiological factors of dental caries -Types of dental caries according to their anatomical	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
7	**1**	Epidemiology of Periodontal Disease	-Periodontal Diseases definition -Structure of the periodontal tissues -Epidemiology -Etiology of periodontal disease	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
8	**1**	Epidemiology of Oral Cancer	- Types of cancers - Etiology of oral cancer - Constituents of tobacco smoke - Potentially malignant lesions - Levels of prevention for oral cancer - Rehabilitation after Oral Cancer	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
9	**1**	Dental indices	- Index - Uses of dental index - Classification of indices	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
10	**1**	Indices used for assessment of dental caries	-DMF index -Principles in recording DMF index - Calculation of DMFT/DMFS - Dental caries severity index - dmf index	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
11	**1**	Indices used for assessment of periodontal disease	- Oral Hygiene Indices: - Gingival inflammation indices - Periodontal indices	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
12	**1**	Dental fluorosis	Indices for assessment of dental fluorosis	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
13	**1**	Biostatistics	- Data - Types of data - Methods of Data Collection	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams

			-Sampling Technique -Types of sample design		
14	**1**	Data presentation	- Methods of data presentation -The tabulation of data -The graphical representation of data	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
15	**1**	Measures of central tendency & dispersion	-Measures of central tendency -Measures of dispersion.	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
16	**1**	Fluoridation as a public health measure	- History: - Sources of Fluoride -Water fluoridation -Types of fluoride	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
17	**1**	Fluoridation Mechanism and Effects	Mechanism of action -Anti-caries effects of fluoride. - Metabolism of fluoride. -Dental Fluorosis -Side effects of fluoride	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
18	**1**	Occupational hazards in dentistry	- Major occupational hazard s -Biological health hazards. -Physical hazards -Chemical hazards -Musculoskeletal disorders and diseases of the peripheral nervous system -Hearing loss -Radiation exposure -Stress -Legal hazards -Other risks	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
19	**1**	Environment and health	- Environment -Physical environment -Biological environment -Psychological environment - Environmental indicators	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
20	**1**	Effects of air pollution on health	-Prevention and control of air pollution - Effects of radiation -Noise pollution	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
21	**1**	School Dental Health Program	- Purpose of School Health Program - Guidelines for an ideal school dental program - School dental survey - phases in school oral health program	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
22	**1**	Treatment need and demand -	Need - categories of need - Demand - Factors affecting dental demands	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
23	**1**	Dental manpower	- Manpower definition - Dental health manpower planning	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams

			-Steps in dental health manpower planning		
24	**1**	Ethics in dentistry	-Definition of ethics - Dentistry as a profession - Ethical principles	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
25	**1**	Oral health care for special populations	- Elderly people: -The main oral effects of aging - Pregnant women - Special Care Dentistry - Patients with special health care needs	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
26	**1**	Forensic dentistry - Introduction	-Application of forensic dentistry. -Bit marks -Person identification. -Dental identification	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
27	**1**	Dental auxiliary personal	-Introduction. - Dental auxiliary classification. *Non operatory auxiliary. * Operatory auxiliary -Four handed relationship.	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
28	**1**	Primary health care	- Introduction. -Elements (components) of Primary health care. -Principles of Primary health care. - Primary dental health care. -Community dental health services	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
29	**1**	Infection control	- Introduction. -Concept of disease transmission . -The acquisition means of pathogens. -Transmission of infectious diseases. -Control of infectious diseases. -Personal barrier techniques. -Instrument processing(sterilization)	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
30	**1**	Dental health education	- Introduction. -Aims of health education. -Objective of health education. - Objective of dental health education. -Principle of health education. -Planning a health education programs.	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams

Clinical requirements Lab number	Study unit title	Hours	**Practical Course**
1	Community dentistry	2	
2	Patient's setting and examination	2	
3	Clinical examination	2	
4	Basic tooth numbering	2	
5	Clinical examination	2	
6	Indices	2	
7	Dental caries	2	
8	Theories of caries formation	2	
9	Dental caries indices	2	
10	Clinical examination	2	
11	Clinical examination	2	
12	Deciduous teeth	2	
13	Clinical examination	2	
14	Clinical examination	2	
15	Prevention of dental caries	2	
16	Fluoride	2	
17	Periodontal diseases	2	
18	Indices for plaque assessment	2	
19	Clinical examination	2	
20	Clinical examination	2	
21	Indices for calculus assessment	2	
22	Clinical examination	2	
23	Clinical examination	2	
24	Gingival disease indices	2	
25	Clinical examination	2	
26	Clinical examination	2	
27	Periodontal diseases prevention	2	
28	Tooth brushing/mechanical plaque control	2	
29	Clinic……assistant	2	
30	Clinic……assistant	2	
Total		60	

12. Course Evaluation

1-Distribution of the score out of 100 according to the tasks assigned to the student, such as daily preparation, daily exams, oral, monthly, written and records.
2-For first and second semesters 25 degrees (15 practical + 10 theoretical) and mid-year 15 degrees and final examination 60 degrees (40 theoretical + 20 practical)

13. Learning & Teaching Resources

Required textbooks (curricular if any)	1- Dentistry, Dental Practice, and the Community - E-Book (2005) by Brian A. Burt, Steven A. Eklund 2- Comprehensive preventive dentistry (2012) Edited by Hardy Limeback
Main References (sources)	
Recommended Books & References (Scientific Journals, Reports …)	Make periodic reports and read recent research in reputable journals
Websites or Electronic References	PubMed, Scopus, Elsevier, Google Scholar, Research Gates

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Course Description (1)

29. Course Title	**Dental radiology**
1. Course Code	**050308**
2. Semester/Year	annual
3. Description Preparation Date	2023-2024
4. Available Attendance Form	Lectures and Laboratory
5. No. of Hours (Total)	Theory: 30 hours Practical: 60 hours
6. No. of Credits (Total)	4
7. Course Administrator Name	Assistant lecturer hamsa jamal mahdi
8. E-mail	Hamsa.jamal@albayan.edu.iq
9. Course Objectives	
Knowledge	Gaining experience and information related to X-rays, radiographs, and all types of radiography equipment Developing the student's skills in the field of dealing with radiographic films, digital sensors, and means of displaying them Increasing students' knowledge of techniques for taking radiographs using films and digital sensors and Learn how to evaluate the type of photos taken, possible errors, and ways to avoid them
Skills	• Enabling the student to use x-ray machines correctly • Explain the importance of radiation protection and its risks • Enabling the student to read and diagnose radiographs of various types • Providing sufficient information about the latest types of devices and diagnostic methods in the field of oral and maxillofacial radiology • Reading radiographs • Use of devices

		• Possibility of protection from radiation risks • Acquiring skills in taking radiographs with their various techniques while taking preventive measures for the doctor, workers, and patients • Developing the skills of reading and interpreting apparent cases to reach the correct diagnosis

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10.Course structure					
Evaluation method	Learning method	Name of the unit or topic	Required educational outcomes	hours	the week
Daily examinations and evaluations on treatment of patients	Data show White board	Fundamentals of radiology	Understanding and knowing how to deal and use x radiation in dentistry	1	1
Daily examinations and evaluations on treatment of patients	Data show White board	Production& interaction of X-ray	Understanding and knowing how to deal and use x radiation in dentistry	1	2
Daily examinations and evaluations on treatment of patients	Data show White board	X-ray film & processing cycle	Understanding and knowing how to deal and use x radiation in dentistry	1	3
Daily examinations and evaluations on treatment of patients	Data show White board	Factors relating to the production of radiograph	Understanding and knowing how to deal and use x radiation in dentistry	1	4
Daily examinations	Data show	Ideal radiographic	Understanding and knowing how to deal and use x	1	5

and evaluations on treatment of patients	White board	projections& artifacts	radiation in dentistry		
Daily examinations and evaluations on treatment of patients	Data show White board	Hazards of X-radiation & its biological effects	Understanding and knowing how to deal and use x radiation in dentistry)	1	6
Daily examinations and evaluations on treatment of patients	Data show White board	Protection from X-radiation in the clinic of radiography	Understanding and knowing how to deal and use x radiation in dentistry	1	7
Daily examinations and evaluations on treatment of patients	Data show White board	Intraoral techniques 1	Understanding and knowing how to deal and use x radiation in dentistry	1	8
Daily examinations and evaluations on treatment of patients	Data show White board	Intraoral techniques 2	Understanding and knowing how to deal and use x radiation in dentistry	1	9
Daily examinations and evaluations	Data show White board	Darkroom	Understanding and knowing how to deal and use x radiation in dentistry	1	10

on treatment of patients					
Daily examinations and evaluations on treatment of patients	Data show White board	Patient's management	Understanding and knowing how to deal and use x radiation in dentistry	1	11
Daily examinations and evaluations on treatment of patients	Data show White board	Localization techniques	Understanding and knowing how to deal and use x radiation in dentistry	1	12
Daily examinations and evaluations on treatment of patients	Data show White board	Radiographic survey	Understanding and knowing how to deal and use x radiation in dentistry	1	13
Daily examinations and evaluations on treatment of patients	Data show White board	Viewing techniques (conventional and digital)	Understanding and knowing how to deal and use x radiation in dentistry	1	14
Daily examinations and evaluations on treatment of patients	Data show White board	Dental panoramic radiography (principles)	Understanding and knowing how to deal and use x radiation in dentistry	1	15

Daily examinations and evaluations on treatment of patients	Data show White board	Dental panoramic radiography (anatomy)	Understanding and knowing how to deal and use x radiation in dentistry)	1	16
Daily examinations and evaluations on treatment of patients	Data show White board	Introduction for normal radiographic anatomy	Understanding and knowing how to deal and use x radiation in dentistry	1	17
Daily examinations and evaluations on treatment of patients	Data show White board	Radiographic appearance of normal intraoral landmarks	Understanding and knowing how to deal and use x radiation in dentistry	1	18
Daily examinations and evaluations on treatment of patients	Data show White board	Radiographic appearance of common diseases of teeth & supporting structure	Understanding and knowing how to deal and use x radiation in dentistry	1	19
Daily examinations and evaluations on treatment of patients	Data show White board	Extra oral radiography	Understanding and knowing how to deal and use x radiation in dentistry	1	20
Daily examinations	Data show	Digital imaging system	Understanding and knowing how to deal and use x	1	21

and evaluations on treatment of patients	White board		radiation in dentistry		
Daily examinations and evaluations on treatment of patients	Data show White board	Computed Tomography (theory & physics)	Understanding and knowing how to deal and use x radiation in dentistry	1	22
Computed Tomography (clinical application in maxillofacial region). Understanding and knowing how to deal and use x radiation in dentistry					
Daily examinations and evaluations on treatment of patients	Data show White board	CBCT (theory & advantages over conventional CT)	Understanding and knowing how to deal and use x radiation in dentistry	1	23
Daily examinations and evaluations on treatment of patients	Data show White board	CBCT (clinical applications in maxillofacial region).	Understanding and knowing how to deal and use x radiation in dentistry	1	24
Daily examinations and evaluations on treatment of patients	Data show White board	TMJ Radiography (normal & pathological)	Understanding and knowing how to deal and use x radiation in dentistry)	1	25

Daily examinations and evaluations on treatment of patients	Data show White board	TMJ imaging	Understanding and knowing how to deal and use x radiation in dentistry	1	26
Daily examinations and evaluations on treatment of patients	Data show White board	MRI (theory and physics)	Understanding and knowing how to deal and use x radiation in dentistry	1	27
Daily examinations and evaluations on treatment of patients	Data show White board	MRI (clinical applications)	Understanding and knowing how to deal and use x radiation in dentistry	1	28
Daily examinations and evaluations on treatment of patients	Data show White board	Radiography and implantology	Understanding and knowing how to deal and use x radiation in dentistry	1	29
Daily examinations and evaluations on treatment of patients	Data show White board		Understanding and knowing how to deal and use x radiation in dentistry	1	30
11.Course evaluation					

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

Number	Assessment measurement	
1	151st and 2nd semester 25%	10 theory 10% C clinical 15%
2	Mid-year examination 15%	Theory 15%
3	Final examination (60%)	40% theory 20% clinical
Total		**100%**

12.Learning and teaching resources

Required textbooks, methodology if present	**White and Pharoah's Oral radiology principles and interpretation. Sanjay Mallya and Ernest Lam. 8 th edition. 2019, Elsevier**
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities	(include for example, guest Lectures , internship , field studies)

Electronic References, Internet Sites	PubMed, Scopus, Elsevier, Google Scholar, Research Gates

13.Course Evaluation		
Theory 10% Practical 15%	First + second semester 25%	1
Theory 15%	Midyear examination 15%	2
Theory 40% Practical 20%	Final examination	3
100%		**Total**

14.Learning & Teaching Resources	
Required textbooks, methodology if present	**White and Pharoah's Oral radiology principles and interpretation. Sanjay Mallya and Ernest Lam. 8 th edition. 2019, Elsevier**
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities	(include for example, guest Lectures , internship , field studies)
Electronic References, Internet Sites	PubMed, Scopus, Elsevier, Google Scholar, Research Gates

Course Description (1)

1. Course Title	Prosthodontics
2. Course Code	050401
3. Semester/Year	Annual
4. Description Preparation Date	24/3/2024
5. Available Attendance Form	weekly
6. No. of Hours (Total)	Theoretical 30 hours + clinical 90 h (120 hours)
7. No. of Credits (Total)	5

8. Course Administrator Name	farahnabel@uomustansiriyah.edu.iq
9. E-mail	Ass. Prof. Farah Nabil

10. Course Objectives

Knowledge	A1	Training the student on how to examine and diagnose medical conditions.
	A2	Giving important information and treatment steps
	A3	Giving instructions and following up on the process of making partial dentures
	A4	
Skills	B1	Describe the tools used to treat patients in need of partial dentures
	B2	Practical training on the steps followed to treat patients who need a partial denture
	B3	Follow up the student while working with oral questions for each step to encourage student to make connections between theoretical lectures and the practical aspect
	B4	
Values	C1	Solving problems
	C2	Creating a spirit of scientific competition among students by asking questions relatec various new cases
	C3	Encouraging the student to develop themselves through continuous reading and trainin
	C4	

11.Teaching and Learning Strategies

1.	Lectures using data show and power point	4.	E-learning
2.	Educational films	5.	Smart boards
3.	Display screens	6.	Practical application in the laboratory

جامعة البيان

12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	1	Anatomy and physiology as related to dental prosthesis (Osteology)	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
2	1	Anatomy and physiology as related to dental prosthesis (Myology)	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
3	1	Diagnosis and treatment plan for RPD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
4	1	To be continued Diagnosis and treatment	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
5	1	Preparation of the mouth to receive an RPD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
6	1	Preparation of the mouth to receive an RPD (Continued).	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
7	1	Classification of impression technique	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
8	1	Classification of impression technique (To be continue)	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
9	1	Designing Support	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
10	1	Fitting the removable partial denture framework	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
11	1	Occlusal Relationship for Removable Partial Denture	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
12	1	Jaw relation in RPD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam

13	1	Trial RPD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
14	1	Initial placement and adjustment of RPD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
15	1	Pre- prosthetic surgery	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
16	1	Pre-prosthetic Surgical Considerations (Continued).	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
17	1	Diagnosis and treatment plan CD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
18	1	To be continued diagnosis and treatment plan for CD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
19	1	Impression in CD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
20	1	TMJ and mandibular movement.	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
21	1	Digital RPD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
22	1	Vertical jaw relation	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
23	1	Horizontal jaw relation (Centric occlusion)	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
24	1	Try in stage in CD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
25	1	Insertion of CD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
26	1	Adjustments of CD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
27	1	Post insertion complications in CD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
28	1	relining and rebasing of CD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam
29	1	Repair of fractured RPD	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam

30	1	Esthetic denture materials	Prosthodontics	Theoretical lecture using Power Point	Quizzes & semester exam

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13.Course Evaluation	
Distribution of the score out of 100 according to the tasks assigned to the student, such as daily preparation, daily exams, oral, monthly, written and records.	
14.Learning & Teaching Resources	
Required textbooks (curricular if any)	➢ **Zarb, Hobkirk, Eckert, Jacob et al. Prosthodontic treatment for edentulous patients** ➢ **Complete dentures and implant-supported Mosby, prostheses.13th edition 2013 Elsevier Inc.** ➢ **McCracken's removable partial prosthodontics, 13th edition 2016 by Elsevier, Inc**
Main References (sources)	
Recommended Books & References (Scientific Journals, Reports …)	
Websites or Electronic References	

Course Description (1)

1. Course Title	**conservative 4th**
2. Course Code	**050402**
3. Semester/Year	annual
4. Description Preparation Date	2023-2024
5. Available Attendance Form	Lectures and Laboratory
6. No. of Hours (Total)	Theory: 30 hours Practical: 150 hours
7. No. of Credits (Total)	8
8. Course Administrator Name	Assistant lecturer Mohammed Hamoudi
9. E-mail	m.hamoudi@albayan.edu.iq

10. Course Objectives

Knowled		Preparing dental students scientifically and practically and qualifying them to deal withPreparing the too and making fillingsSimple and moderate under local anesthesia and training them on medical diagnosis a taking the patient's medical history and being accurate in doing so to protect themselves and their patients training them to deal with emergency cases within their specialty.Fillings and root canal fillings
Skills		**C-thinking skills** 1.Motivating the student from During style Expression And thinking And speed communication and response 2- Urging the student toSolving problems and possessing distinctive thinking 3. The lecture depends on student interaction and brainstorming 4. Qualifying students to examine, diagnose and treatnoC patients **Dr.. Skills The other Related Capable recruitment And evolution Personal (General skills And movable (** 1- Professional preparation and urging the student to have positive behavior in his public life 2- Scientific preparation and urging the student to communicate in a fieldtheaT aFor other sciences 3- Cultural preparation and refining the student's personality -4 Utilizing the acquired skills so that the student becomes a dentist capable of...noC patients

جامعة البيان

11. Course structure					
Evaluation method	**Learning method**	**Name of the unit or topic**	**Required educational outcomes**	**hours**	**the week**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry.	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry.	**1**	**1**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry.	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry.	**1**	**2**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry	**1**	**3**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry	**1**	**4**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Patient Evaluation, Diagnosis & Treatment Planning	Patient Evaluation, Diagnosis & Treatment Planning	**1**	**5**
Daily examinations and evaluations	**Data show White board**	Caries Management (Diagnosis & treatment strategies)	Caries Management (Diagnosis & treatment strategies)	**1**	**6**

on treatment of patients					
Daily examinations and evaluations on treatment of patients	**Data show White board**	Cervical Lesions(carious and non-carious lesions)	Cervical Lesions(carious and non-carious lesions)	**1**	**7**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Restorative Dentistry and Pulpal Health	Restorative Dentistry and Pulpal Health	**1**	**8**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Management of Deep Seated Caries	Management of Deep Seated Caries	**1**	**9**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Inflammatory Conditions of the Pulp	Inflammatory Conditions of the Pulp	**1**	**10**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Treatment of Deep Seated CariesSimplified anatomical modeling.	Treatment of Deep Seated CariesSimplified anatomical modeling.	**1**	**11**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Fluoride – Releasing Materials	Fluoride – Releasing Materials	**1**	**12**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Indirect aesthetic adhesive restorations Inlays and Onlays (materials, techniques) CAD/CAM Technology.	Indirect aesthetic adhesive restorations Inlays and Onlays (materials, techniques) CAD/CAM Technology.	**1**	**13**

Daily examinations and evaluations on treatment of patients	**Data show White board**	Direct tooth-colored restorations (Composite)	Direct tooth-colored restorations (Composite)	**1**	**14**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Dental Laser	Dental Laser	**1**	**15**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Application of Laser in Conservative Dentistry.	Application of Laser in Conservative Dentistry.	**1**	**16**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Application of Laser in Conservative Dentistry.	Application of Laser in Conservative Dentistry.	**1**	**17**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Indirect tooth-colored restorations	Indirect tooth-colored restorations	**1**	**18**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Techniques of posterior composite Inlay/Onlay restoration system Laboratory-processed composite inlays and onlays.	Techniques of posterior composite Inlay/Onlay restoration system Laboratory-processed composite inlays and onlays.	**1**	**19**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Ceramic veneers, inlays and onlays, clinical procedures.	Ceramic veneers, inlays and onlays, clinical procedures.	**1**	**20**

Daily examinations and evaluations on treatment of patients	**Data show White board**	Ceramic veneers, inlays and onlays, clinical procedures.	Ceramic veneers, inlays and onlays, clinical procedures.	**1**	**21**
Daily examinations and evaluations on treatment of patients	**Data show White board**	CAD/CAM techniques	CAD/CAM techniques	**1**	**22**
Endodontics					
Daily examinations and evaluations on treatment of patients	**Data show White board**	Topics Covered	Topics Covered	**1**	**23**
Daily examinations and evaluations on treatment of patients	**Data show White board**	1-Objective of endodontic treatment	1-Objective of endodontic treatment	**1**	**24**
Daily examinations and evaluations on treatment of patients	**Data show White board**	2- Basic Phases of Treatment	2- Basic Phases of Treatment	**1**	**25**
Daily examinations and evaluations on treatment of patients	**Data show White board**	3- Pulp pathologies	3- Pulp pathologies	**1**	**26**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Classification of periapical diseases	Classification of periapical diseases	**1**	**27**
Daily examinations	**Data show**	Access Opening Preparation	Access Opening Preparation	**1**	**28**

and evaluations on treatment of patients	**White board**				
Daily examinations and evaluations on treatment of patients	**Data show White board**	Endodontic Instruments	Endodontic Instruments	**1**	**29**
Daily examinations and evaluations on treatment of patients	**Data show White board**	Roentgenography in Endodontics and Root canal preparation	Roentgenography in Endodontics and Root canal preparation	**1**	**30**

12. Course evaluation

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

Number	Assessment measurement	Scoredistribution Operative	Score distribution Preclinical Endodontics
1	Clinical Requirements 25%	19%	6%
2	Mid year examination (25%)	15%	10%
3	Final examination (50%) 25% theory 25% clinical	30%	20%
Total	**100%**	64%	36%

13. Learning and teaching resources

Art and science of operative dentistry	**Required textbooks (methodology, if any)**
Pathway of the pulp	**Main references (sources)**
View recent research	**Recommended supporting books and references (scientific journals, reports....)**
Google scholar, research gate	**Electronic references, Internet sites**

14. Course Evaluation		
1	First + second semester 25%	Theory 10% Practical 15%
2	Midyear examination 15%	Theory 15%
3	Final examination	Theory 40% Practical 20%
Total		**100%**

15. Learning & Teaching Resources	
Required textbooks (curricular if any)	1. Dental laboratory technology for removable prosthodontics 2. Textbook of complete denture
Main References (sources)	
Recommended Books & References (Scientific Journals, Reports …)	Make periodic reports and read recent research in reputable journals
Websites or Electronic References	PubMed, Scopus, Elsevier, Google Scholar, Research Gates

Course Description (1)

1. Course Title	**Orthodontics**
2. Course Code	**050405**
3. Semester/Year	**annual**
4. Description Preparation Date	**2023-2024**
5. Available Attendance Form	**Lectures and laboratory work**
6. No. of Hours (Total)	**30 hr. theoretical and 120 hr. practical**
7. No. of Credits (Total)	**7**

8. Course Administrator Name	**Assistant lecturer Ghassan Bahir Abdulkareem**
9. E-mail	**Ghassan.bahir@albayan.edu.iq**

10. Course Objectives

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification

11· Learning Outcomes, Teaching, Learning and Assessment Methods

A. Knowledge	**A1.**	**Acquire the knowledge about the causes of malocclusion**
	A2.	**Knowing the methods of diagnosis and treatment of these problems**
	A3.	**Knowing different types of orthodontic appliances**
B. Subject-specific skills	**B1.**	**Learning how to construct a removable orthodontic appliance**
	B2.	**Learning how to adjust and activate the appliance**
C. Thinking Skills	**C1.**	**Solutions the problems of malocclusion**
	C2.	**Learning how to design a removable appliance**
D. General and Transferable Skills	**D1.**	**Prepare the students practically to construct a removable appliance**
	D2.	**Prepare the students practically how to design a removable appliance.**
	D3.	**Manage the removable orthodontic appliance**

12. Teaching and Learning Strategies

1.	Lectures using data show and power point	**4.**	Educational films
2.	Display screens	**5.**	Smart boards
3.	E-learning	**6.**	Practical application in the laboratory

13. Course Structure (Theoretical)

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Methods	Assessment Method
1	1	**Introduction** - Definition of orthodontics - Definition of occlusion, normal, ideal and malocclusion	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
2	1	- Six keys of normal occlusion - Aims of orthodontic treatment	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
3	1	- Important orthodontic definitions - Classification of malocclusion	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
4	1	**Growth and development** - Definitions of growth, development and maturity - Stages of development (ovum till birth)	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
5	1	- Theories of bone growth - Definitions of growth site, growth center, displacement, and drift	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
6	1	- Growth curve and maximum growth spurt - Prenatal and postnatal growth and development of hard tissues	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
7	1	- Prenatal and postnatal growth and development of soft tissues - Developmental anomalies	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
8	1	- Jaw rotation - Compensation and adaptation	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams

9	1	**Deciduous and permanent dentition** a-Stages of tooth development: (Formation, calcification and root completion)	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
10	1	b-Tooth eruption (stages and theories), Sequences and timing of eruption	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
11	1	**Development of occlusion** a. new born oral cavity. b. Deciduous dentition stage - Dental changes till 6 years of age.	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
12	1	c. Early mixed dentition stage - eruption of first molars and incisors. d. Late mixed dentition stage - eruption of canines and premolars e. Permanent dentition - eruption second and third molars.	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
13	1	**Etiology of malocclusion:** -Genetic and inherited etiological factors of malocclusion	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
14	1	-Classification of etiological factors a. General factors i. Skeletal factors	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
15	1	ii. Soft tissue factors	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
16	1	iii. dental factors	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
17	1	b. Local factors (definitions without treatment)	Orthodontics	Theoretical lecture	Quizzes, semester,

				using power point presentation	mid-year and final year exams
18	1	**Tooth movement** a. Tissue changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth movement b. Accelerated tooth movement.	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
19	1	c. Biomechanics i. Force (application, type, magnitude, duration and direction) ii. Center of resistance and rotation, moment of force and moment of couple. iii. Types of tooth movement iv. Rate of tooth movement and factors affecting it.	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
20	1	d. iatrogenic effect of orthodontic treatment (pain, mobility, pulp effect, root resorption, white spot lesions).	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
21	1	**Biomechanics**	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
22	1	**Anchorage** (definition, indications, types)	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
23	1	**Orthodontic appliances** a. Overview: i. passive orthodontic appliances (habit breaker, retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination)	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams

		iii. Other active appliances: space regainer, Invisalign, lingual orthodontics)			
24	1	b. Removable Orthodontic Appliance: i. Properties of various components (SS wire, acrylic) ii. Components: 1) active components (springs, screws and elastics) 2) retentive components (clasps) 3) acrylic base plate and bite planes 4) anchorage	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
25	1	iii. Design of a removable orthodontic appliance iv. Construction of a removable orthodontic appliance v. Soldering and welding vi. Post-insertion instructions and guidelines	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
26	1	c. Fixed orthodontic appliance: Types, components, advantages, limitation, biomechanics, banding vs. bonding	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
27	1	d. Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
28	1	*continue* Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
29	1	f. Retention and retainers -Retention (definition, reason, time) -Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
30	1	*Continue* retention and retainers	Orthodontics	Theoretical lecture	Quizzes, semester,

				using power point presentation	mid-year and final year exams

14. Course Structure (Practical)

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Methods	Assessment Method
1	4	Seminar 1 (Introduction to orthodontics, Orthodontic Pliers)	Orthodontics	Practical demonstration	Practical evaluation, Quizzes, semester, mid-year and final year exams
2	4	Seminar 2 (Types of orthodontic appliances) (Introduction to removable appliance)	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
3	4	Seminar 4 (Stainless steel alloy properties)	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
4	4	Seminar 5 (Principles of wire bending)	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
5	4	Wire bending training	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
6	4	*Continue* wire bending training	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
7	4	Z-Spring	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
8	4	Recurved Z-Spring	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
9	4	Review	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
10	4	Simple Finger Spring	Orthodontics	Practical demonstration	Practical evaluation, Quizzes

11	4	Modified Finger Spring	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
12	4	Review	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
13	4	Buccal Canine Retractor	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
14	4	Modified Buccal Canine Retractor	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
15	4	Review	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
16	4	Quarterly Exam	Orthodontics	Practical demonstration	Practical evaluation
17	4	Adams' Clasps on Upper Right 1st Molar	Orthodontics	Practical demonstration	Practical evaluation, Quizzes, semester,
18	4	Adams' Clasps on Upper Left 1st Molar	Orthodontics	Practical demonstration	Practical evaluation, Quizzes,
19	4	Adams' Clasps on Upper Right 1st Premolar	Orthodontics	Practical demonstration	Practical evaluation, 20Quizzes,
20	4	Double Adams' Clasps on Upper Right 2nd premolar &1st molar	Orthodontics	Practical demonstration	Pr21actical evaluation, Quizzes, semester, mid
21	4	Review	Orthodontics	Practical demonstration	Practical evaluation, Quizzes,
22	4	Fitted Labial Arch	Orthodontics	Practical demonstration	Practical evaluation, Quizzes, semester, mid
23	4	Hawley Arch	Orthodontics	Practical demonstration	Practical evaluation, Quizzes

24	4	Review	Orthodontics	Practical demonstration	Practical evaluation, Quizzes,
25	4	Robert's Retractor	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
26	4	Acrylic baseplate	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
27	4	Soldering and Welding	Orthodontics	Practical demonstration	Practical evaluation, Quizzes,
28	4	Review	Orthodontics	Practical demonstration	Practical evaluation, Quizzes
29	4	Quarterly Exam	Orthodontics	Practical demonstration	Practical evaluation,
30	4	Final Exam	Orthodontics	Practical demonstration	Practical evaluation,

Every laboratory work includes the following:
Presentation of figures.
Demonstration done by teaching staff.
Wire bending done by the student.
Assessment of the figure.

15. Assessment Curriculum	
First semester + second semester	**25%**
Mid-year examination Theoretical	**15%**
Final exam Theoretical	**60%**
Total	**100%**
16. Learning and teaching resources	
Required textbooks, methodology if present	**1. Singh G. Textbook of orthodontics. 3rd ed. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.; 2015.**
	2. Littlewood SJ, Mitchell L. An introduction to orthodontics. 5th ed. Oxford: Oxford university press; 2019.

	3. Nakajima E. Manual of wire bending technique. 1st ed. Chicago: Quintessence Publishing Co., Inc; 2010.
	4. Proffit WR, Fields Jr HW, Larson BE, Sarver DM. Contemporary orthodontics. 6th ed. Philadelphia: Elsevier; 2019.
	5. Graber LW, Vanarsdall RL, Vig KWL, Huang GJ. Orthodontics: current principles and techniques. 6th ed. St. Louis: Elsevier, Inc.; 2017.
Special requirements (include for example workshops, periodicals, IT software, websites)	**The students are guided to perform seminars and reports and invite them to the continuous education programs**
Electronic References, Internet Sites	**Google Scholar, research gate**

جامعة البيان

Course Description (1)

1. Course Title	**Pediatric Dentistry**
2. Course Code	**050409**
3. Semester/Year	annual
4. Description Preparation Date	2023-2024
5. Available Attendance Form	Lectures
6. No. of Hours (Total)	Theory: 30 hours
7. No. of Credits (Total)	2
8. Course Administrator Name	Assistant lecturer serar nassir mahmood
9. E-mail	Serar.n@albayan.edu.iq

10.Course Objectives

Knowledge		**Understand and assimilate theoretical and practical methods for treating all cases of infection of children's teeth and learn about scientific methods and methods supported using explanations to know how to determine brown and permanent teeth and the problems related to them.**
Skills		**Learning Outcomes:** **A- Knowledge and understanding** **1- Enabling students to acquire and understand the subject of pharmacology.** **2- Enabling students to dispense medications in the correct scientific manner for various diseases and conditions after they are diagnosed.** **3- Enabling students to possess self-learning skills to acquire information, skills, and practices related to medicines.** **4- Enabling students to know drug interactions and side effects of drugs.** **B - Subject-specific skills** **1 - Asking brainstorming questions through which the student can link the study materials together and link them to the medical and health reality.** **2- Developing motivational interviewing skills to encourage patients to take preventive measures and adhere to treatment and its instructions.** **C- Thinking skills**

		1- Motivating the student through the style of expression and thinking and the speed of communication and response **2- Urging the student to solve problems and possess distinctive thinking** **3- The lecture depends on student interaction and brainstorming** **3- Discussing various medical conditions and finding appropriate treatments for them.** **D - General and transferable skills (other skills related to employability and personal development)** **1- Professional preparation and encouraging the student to have positive behavior in his public life** **2- Scientific preparation and urging the student to communicate in other fields of science** **3- Cultural preparation and refining the student's personality** **4- Utilizing the acquired skills so that the student becomes a dentist capable of treating patients** **Teaching and learning methods** **1. Lectures using data showing and PowerPoint** **2. Educational films** **3. Display screens** **4. E-learning** **5. Blackboards** **6. Student discussion groups.** **1. Lectures using data showing and PowerPoint** **2. Educational films** **3. Display screens** **4. E-learning** **5. Blackboards** • **6. Student discussion groups.**

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11..Course structure					
Week	Hours	Subject name	The outcomes of learning	Learning method (hours)	Week
Daily exam	Data show White board	Eruption of teeth, normal eruption process	Recognizing tooth eruption, a natural eruption process	1	
Daily exam	Data show White board	Teething & difficult eruption	Identifying teething and its difficulties in children	1	
Oral exam + discussion sessions	Data show White board	Eruption haematoma, sequestrum ,ectopic eruption	Hematoma eruption, entrapment, external eruption	1	
Daily oral exam	Data show White board	Epstein pearls, Bohn nodules, Dental lamina cysts, Shedding of the primary teeth, Mechanism of resorption, and shedding Factors cause differences in time of eruption	Epstein pearls, Bohn's nodules, lamina cysts, loss of primary teeth, resorption mechanism, and shedding factors cause differences in eruption time.	1	
oral test	Data show White board	Systemic (disease) factors that cause late eruption deciduous dentition period, ugly duckling stage	Systemic factors (disease) that cause the appearance of late baby teeth, the ugly duckling stage	1	
oral test	Data show White board	Morphology of the primary teeth	Morphology of primary teeth	1	
oral test	Data show White board	Normal morphology of all primary teeth and their clinical consideration	Recognize the normal morphology of all primary teeth and their clinical considerations	1	
Discussion panels	Data show White board	Morphological differences	Recognize the morphological	1	

		between primary and permanent teeth	differences between primary and permanent teeth		
Daily exam	Data show White board	Functions of primary teeth	Identify the functions of baby teeth	1	
Daily exam	Data show White board	Dental caries; Definition and Classification	Definition of tooth decay; Definition and classification	1	
Daily exam	Data show White board	Rampant dental caries, Early childhood caries	Identifying rampant tooth decay and early tooth decay in children	1	
Daily exam	Data show White board	Restorative dentistry for children Isolation & maintenance of dry field and application of the rubber Dam	Learn about pediatric restorative dentistry Dry field isolation and maintenance and rubber dam application	1	
Daily exam	Data show White board	Morphological consideration, cavity preparation, and instrumentation	Learn about morphological consideration, cavity preparation, and the tools used	1	
Daily exam	Data show White board	Restorative materials used on pediatric dentistry	Restorative materials used in pediatric dentistry	1	
Daily exam	Data show White board	Matrices & retainers	Arrays and folders	1	
a report	Data show White board	Chrome steel crowns, ART	Chrome steel crowns, ART	1	
Homework	Data show White board	Treatment of deep caries	Learn how to treat deep caries	1	
Daily exam	Data show White board	Indirect pulp treatment	Learn how to treat indirect pulp	1	
Daily exam	Data show Whiteboard	Vital pulp therapy pulpotomy	Vital pulp therapy	1	

oral test	Data show White board	Non-vital pulp therapy technique	Learn how to treat non-vital pulp	1	
Discussion groups	Data show White board	Reaction of pulp to various capping materials	Interaction of the pulp with various sealing materials	1	
Daily exam	Data show White board	Local anesthesia and pain control for children	Local anesthesia and pain control in children	1	
oral test	Data show White board	Anesthetizing mandibular and maxillary teeth and soft tissue	Anesthesia of the mandibular and maxillary teeth and soft tissues		
oral test	Data show White board	complications after a local anesthetic	Complications after local anesthesia	1	
Discussion panels	Data show White board	supplemental injection techniques	Supplemental injection techniques	1	
Homework	Data show White board	Oral surgery for children, indication and contraindications for extraction of primary teeth	Oral surgery for children, indications and contraindications for primary tooth extraction	1	
Homework	Data show White board	technique for extraction of primary teeth	Extraction technique for complications of primary tooth extraction	1	
a report	Data show White board	extraction complications	Primary tooth extraction technique	1	
oral test	Data show White board	postoperative extraction complications, radiographic survey of teeth extracted	Postoperative extraction complications, radiographic scanning of extracted teeth	1	
Oral exam + discussion groups	Data show White board	Infections manifestation and management	Manifestations of infection and their management	1	
12.Assessment Curriculum					

1. Course evaluation **1. Daily exams for theoretical subjects** **2.Oral questions** **4. Mid-year exam** **5. Final exam**	
First semester + second semester	**15%**
Mid-year examination Theoretical	**15%**
Final exam Theoretical	**60%**
Total	**100%**
13.Learning and teaching resources	
Required textbooks, methodology if present	**McDonald AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2022 by Elsevier**
Main references (Resources)	**Handbook of pediatric dentistry (Cameron) Mosby**
Supporting books and references recommended by scientific journals and reports	**View recent research**
Electronic References, Internet Sites	**Google Scholar, research gate**

Course Description (1)

1. Course Title	**Prosthodontics 5th**	
2. Course Code	**050501**	
3. Semester/Year	annual	
4. Description Preparation Date	2023-2024	
5. Available Attendance Form	Lectures and Clinics	
6. No. of Hours (Total)	Theory: 30 hours	Practical: 180 hours
7. No. of Credits (Total)	8	
8. Course Administrator Name	Assistant lecturer Yaseen Hasan	
9. E-mail	Yassen.h@albayan.edu.iq	
10.Course Objectives		
Kno		Preparing dental students scientifically and practically and qualifying them to make and deal with comple dentures and flexible dentures.

Skills		**A- Special skills:** 1- Gain skills for patient diagnosis 2- Gain skills to make motivational introduction to the patient. **B- Thinking skills** Motivate students to solve problems. **C- General skills:** 1- Motivate students for positive thinking. **2-** Motivate students for other science.

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11.Course structure					
Week	**Hours**	**Subject name**	**The outcomes of learning**	**Learning method (hours)**	**Evaluation**
1	1	Occlusion in Complete Denture	Occlusion in Complete Denture	Data show presentation	Daily examinations and evaluations on treatment of patients
2	1	Occlusion in Complete Denture (Continue)	Occlusion in Complete Denture	Data show presentation	Daily examinations and evaluations on treatment of patients
3	1	Retention, Stability And Support	Retention, Stability And Support	Data show presentation	Daily examinations and evaluations on treatment of patients
4	1	Retention, Stability And Support (Continue)	Retention, Stability And Support	Data show presentation	Daily examinations and evaluations on treatment of patients

5	1	Post Insertion Problems	Post Insertion Problems	Data show presentation	Daily examinations and evaluations on treatment of patients
6	1	Post Insertion Problems (Continue)	Post Insertion Problems	Data show presentation	Daily examinations and evaluations on treatment of patients
7	1	Complications Of Complete Denture	Complications Of Complete Denture	Data show presentation	Daily examinations and evaluations on treatment of patients
8	1	Complications Of Complete Denture (Continue)	Complications Of Complete Denture	Data show presentation	Daily examinations and evaluations on treatment of patients
9	1	Immediate Denture	Immediate Denture	Data show presentation	Daily examinations and evaluations on treatment of patients
10	1	Immediate Denture (Continue)	Immediate Denture	Data show presentation	Daily examinations and

					evaluations on treatment of patients
11	1	Classification system for completely edentulous patients	Classification system for completely edentulous patients	Data show presentation	Daily examinations and evaluations on treatment of patients
12	1	Classification system for completely edentulous patients (Continue)	Classification system for completely edentulous patients	Data show presentation	Daily examinations and evaluations on treatment of patients
13	1	Posterior palatal seal area	Posterior palatal seal area	Data show presentation	Daily examinations and evaluations on treatment of patients
14	1	Single CD	Single CD	Data show presentation	Daily examinations and evaluations on treatment of patients
15	1	Single CD (Continue)	Single CD	Data show presentation	Daily examinations and evaluations on treatment of patients

16	1	Geriatric dentistry	Geriatric dentistry	Data show presentation	Daily examinations and evaluations on treatment of patients
17	1	Maxillofacial Prosthesis	Maxillofacial Prosthesis	Data show presentation	Daily examinations and evaluations on treatment of patients
18	1	Maxillofacial Prosthesis (Continue)	Maxillofacial Prosthesis	Data show presentation	Daily examinations and evaluations on treatment of patients
19	1	Residual Ridge resorption	Residual Ridge resorption	Data show presentation	Daily examinations and evaluations on treatment of patients
20	1	Residual Ridge resorption (Continue)	Residual Ridge resorption	Data show presentation	Daily examinations and evaluations on treatment of patients
21	1	Dental implantology	Dental implantology	Data show presentation	Daily examinations and

					evaluations on treatment of patients
22	1	Dental implantology (Continue)	Dental implantology	Data show presentation	Daily examinations and evaluations on treatment of patients
23	1	Esthetics in CD	Esthetics in CD	Data show presentation	Daily examinations and evaluations on treatment of patients
24	1	Characteristics Of Ideal Materials For Dental Implant	Characteristics Of Ideal Materials For Dental Implant	Data show presentation	Daily examinations and evaluations on treatment of patients
25	1	Copy denture	Copy denture	Data show presentation	Daily examinations and evaluations on treatment of patients
26	1	Over Denture	Over Denture	Data show presentation	Daily examinations and evaluations on treatment of patients

27	1	Over Denture (Continue)	Over Denture	Data show presentation	Daily examinations and evaluations on treatment of patients
28	1	Neutral zone in CD	Neutral zone in CD	Data show presentation	Daily examinations and evaluations on treatment of patients
29	1	Attachments in over denture	Attachments in over denture	Data show presentation	Daily examinations and evaluations on treatment of patients
30	1	Attachments in over denture (Continue)	Attachments in over denture	Data show presentation	Daily examinations and evaluations on treatment of patients

12.Course Evaluation		
Theory 10% Practical 15%	First + second semester 25%	1
Theory 15%	Midyear examination 15%	2
Theory 40% Practical 20%	Final examination	3
100%		**Total**

13.Learning & Teaching Resources	
Required textbooks, methodology if present	Zarb, Hobkirk, Eckert, Jacob et al. Prosthodontic treatment for edentulous patients: Complete dentures and implant-supported prostheses.13th edition 2013 by Mosby, Elsevier Inc.
Main references (Resources)	Golden and Driscoll. Treating the complete denture patient. 1st edition 2020 John Wiley & Sons, Inc.
Supporting books and references recommended by scientific journals and reports	Prosthodontics Articles
Electronic References, Internet Sites	Google scholar and research gate

Course Description (1)

1. Course Title	**Oral Medicine**
2. Course Code	**050502**
3. Semester/Year	**Annual**
4. Description Preparation Date	**2024-2023**
5. Available Attendance Form	**Weekly**
6. No. of Hours (Total)	**30 hours theory and 75 hours practical**
7. No. of Credits (Total)	**4.5**
8. Course Administrator Name	**Alaa Mohammed Shaheed**
9. E-mail	**alaa.mohammed@albayan.edu.iq**

10. Course Objectives		
Kno	A1	Develop student information on patient interviews and take the patients history illness and medical history.

	A2	To acquire experience and information that will help him to identify the disease a find out its causes.
	A3	Increase students knowledge of different oral tissue screening methods a identification of injury areas.
	A4	Learn how to assess the risks of oral illness for patients based on factors such as c hygiene, dietary habits, tobacco use and chronic diseases.
Skills	B1	Acquiring skills in oral clinical examinations for diagnosis and treatment of vari oral diseases
	B2	Identification of signs and symptoms of TMJ disorders, saliva glands and lymph no diseases for diagnosis and treatment.
	B3	Development of early detection skills for certain diseases with oral symptoms.
	B4	Development of early detection of oral cancer.
Values	C1	Professional preparation and promotion of positive behavior in public life
	C2	Scientific preparation and encouragement of students to communicate in other fie of science.
	C3	Cultural preparation and refining of the student's personality.
	C4	Employing acquired skills for the student to become a dentist capable of treat patients.

11. Teaching and Learning Strategies

1.	Lectures using Data show and power point.	4.	Electronic education
2.	Educational films	5.	Smart probes
3.	Monitors	6.	Practical application in the clinic

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12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	1	Oral medicine	The principles of oral diagnosis Clinical examinations	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
2	1	Oral medicine	The principles of oral diagnosis Clinical examinations	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
3	1	Oral medicine	Laboratory investigations in dentis	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
4	1	Oral medicine	Laboratory investigations in dentis	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
5	1	Oral medicine	Orofacial pain	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
6	1	Oral medicine	Orofacial pain	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
7	1	Oral medicine	T.M.J	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
8	1	Oral medicine	T.M.J	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
9	1	Oral medicine	Oral ulceration and Vesiculobullo lesions	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
10	1	Oral medicine	Oral ulceration and Vesiculobullo lesions	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
11	1	Oral medicine	Oral ulceration and Vesiculobullo lesions	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
12	1	Oral medicine	White & red lesions	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
13	1	Oral medicine	White & red lesions	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
14	1	Oral medicine	Early detection of oral cancer	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
15	1	Oral medicine	Early detection of oral cancer	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations

16	1	Oral medicine	Pigmented oral lesions	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
17	1	Oral medicine	Pigmented oral lesions	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
18	1	Oral medicine	Benign, Premalignant and maligna lesions of the oral cavity	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
19	1	Oral medicine	Benign, Premalignant and maligna lesions of the oral cavity	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
20	1	Oral medicine	Benign, Premalignant and maligna lesions of the oral cavity	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
21	1	Oral medicine	Benign, Premalignant and maligna lesions of the oral cavity	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
22	1	Oral medicine	Neuromuscular disorder	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
23	1	Oral medicine	Neuromuscular disorder	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
24	1	Oral medicine	Salivary gland diseases	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
25	1	Oral medicine	Salivary gland diseases	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
26	1	Oral medicine	Autoimmune diseases	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
27	1	Oral medicine	Autoimmune diseases	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
28	11	Oral medicine	Autoimmune diseases	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
29	1	Oral medicine	Oral manifestation of allergic reacti	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations
30	1	Oral medicine	Oral manifestation of allergic reacti	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and f examinations

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13. Course Evaluation	
The Marks distributed according to reports and Seminars presented by the students and quizzes in addition to mid and final exam	
14. Learning & Teaching Resources	
Required textbooks (curricular if any)	**1. Burket's oral medicine. Michael Glick, Martin Greenberg, Peter Lockhart and Dtephen Challacombe. 13th edition.2021, Wiley Black well.** **2. Bumann, A., & Lotzmann, U. TMJ disorders and orofacial pain. The role of dentistry in a multidisciplinary approach. 2011, Thieme.** **3. Little, James W., Craig Miller, and Nelson L. Rhodus. Dental management of the medically compromised patient. 2017, Elsevier Health Sciences.**
Main References (sources)	
Recommended Books & References (Scientific Journals, Reports …)	**Make periodic reports and read recent research in reputable journals**
Websites or Electronic References	**PubMed, Scopus, Elsevier, Google Scholar, Research Gates**

جامعة البيان

Course Description (1)

1. Course Title		Orthodontics
2. Course Code		050405
3. Semester/Year		Annual
4. Description Preparation Date		2024-2023
5. Available Attendance Form		Lectures and clinics
6. No. of Hours (Total)		30 hours theory and 120 hours clinical
7. No. of Credits (Total)		6
8. Course Administrator Name		Assisst.prof. Mahdi Alrubayee Assisst.Lect. Sally Saad Ali
9. E-mail		G-mail: sally.saad@albayan.edu.iq
10. Course Objectives		
Knowledge	A1	Acquire knowledge of methods of diagnosis and treatment of cases of malocclusion.
	A2	How to use the different types of removable and functional orthodontic devices
Ski	B1	Acquire skills in conducting special diagnostic methods

	B2	Knowing the types of orthodontic devices related to each case.
	B3	Motivating the student through the style of expression, thinking, speed of communicat and response
	B4	Qualifying students to examine, diagnose and treat patients
Values	C1	Preparing a professional and urging the student to positive behavior in his public life
	C2	Preparing scientific and urging the student to communicate in other fields of science
	C3	Cultural preparation and refinement of the student's personality
	C4	Employing the acquired skills in order for the student to become a dentist capable treating patients

11. Teaching and Learning Strategies

1.	Lectures using Data show and power point.	4.	Electronic education
2.	Educational films	5.	Smart probes
3.	Monitors	6.	Practical training in the clinic

1	1	Orthodontics	Orthodontic diagnosis and treatment planning: a- Personal data b- Consent form c- Clinical examination i. General body stature	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
2	1	Orthodontics	ii. Face examination in 3 dimensions iii. Skeletal examination iv. Soft tissue examination	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
3	1	Orthodontics	v. Occlusion	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
4	1	Orthodontics	vi. Dentition vii. Temporomandibular joint	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
5	1	Orthodontics	d- Diagnostic aids i. Cephalometrics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
6	1	Orthodontic	ii. Orthopantomograph iii. Other views	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
7	1	Orthodontics	iv. Study models	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
8	1	Orthodontics	v. Photography vi. 3D imaging	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
9	1	Orthodontics	e- Treatment planning	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
10	1	Orthodontics	f- Treatment of Medically compromised patien	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
11	1	Orthodontics	g- Orthodontic indices	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
12	1	Orthodontics	Space analysis, Bolton's ratio	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
13	1	Orthodontics	Teeth extraction in orthodontics	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
14	1	Orthodontics	Serial extraction	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
15	1	Orthodontics	Vertical and transverse problems a. Deep bite	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
16	1	Orthodontics	b. Open bite	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
17	1	Orthodontics	c. Crossbite and scissors bite	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations

18	1	Orthodontics	Treatment of common local factors: a. supernumerary and hypodontia b. Early loss of decideous c. Retained teeth, delayed eruption, impaction, ankylosis d. Abnormal eruptive behavior e. Large frenum iduous teeth	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
19	1	Orthodontics	f. Bad oral habits	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
20	1	Orthodontics	Treatment of aberrant position of canines	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
21	1	Orthodontics	Treatment of general factors: a. Class I treatment (crowding, spacing, biprotrusion	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
22	1	Orthodontics	Continue class I treatment (method of space creation	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
23	1	Orthodontics	b. Class II div. 1 treatment	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
24	1	Orthodontics	c. Class II div. 2 treatment	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
25	1	Orthodontics	d. Class III treatment problems	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
26	1	Orthodontics	Treatment of adults a- Periodontal problems	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
27	1	Orthodontics	b- Orthognathic surgery	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations

28	11	Orthodontics	Cleft lip and palate	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
29	1	Orthodontics	Continue cleft lip and palate	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations
30	1	Orthodontics	Digital orthodontics (digital approach in orthodontic diagnosis and treatment)	Theoretical lecture using Power Point	Quizzes, monthly, mid-year and final examinations

Course Structure Practical

The minimum requirements that allow the students to enter the final examination include:
Treatment of at least one patient:
1- Diagnosis :(Mandatory)
a- Case sheet filling & presentation
b- Upper and lower impression.
c-Study models preparation
d- Extra & intra oral photographs
e- Cephalometric tracing
2-Treatment plan:(Mandatory)
3- Insertion(Optional)
4- Adjustment or Activation(Optional)

The student should receive at least one orthodontic case to enter the final exam

12. Course Evaluation

The Marks distributed according to reports and Seminars presented by the students and quizzes in addition to mid and final exam

13. Learning & Teaching Resources	
Required textbooks (curricular if any)	**1. An Introduction to Orthodontics 5th Edition Simon J. Littlewood and Laura Mitchell 2019.** **2. Orthodontics: Principles and Practice: Principles and Practice 2nd Edition 2017**
Main References (sources)	**1. An Introduction to Orthodontics 5th Edition Simon J. Littlewood and Laura Mitchell 2019.** **2. Orthodontics: Principles and Practice: Principles and Practice 2nd Edition 2017**
Recommended Books & References (Scientific Journals, Reports …)	**Make periodic reports and read recent research in reputable journals**
Websites or Electronic References	**PubMed, Scopus, Elsevier, Google Scholar, Research Gates**

Course Description (1)

1. Course Title	Pediatric Dentistry

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2. Course Code		050505
3. Semester/Year		Annual
4. Description Preparation Date		2023-2024
5. Available Attendance Form		Lectures & Clinics
6. No. of Hours (Total)		30 hours theoretical + 37.5 hours practical
7. No. of Credits (Total)		3.25
8. Course Administrator Name		Mafaz Mahdi Mohsin
9. E-mail		mafaz.mahdi@albayan.edu.iq
10. Course Objectives		
Knowledge	A1	Preparing dental students to keep children's oral and dental health.
	A2	Focus on the treatment and prevention of milk and permanent teeth decay in children.
	A3	Maintain the distance and arrangement of teeth in the jaw.
	A4	Preparing dental students to keep children's oral and dental health.
Skills	B1	Gain experience and information that help him identify the disease and find out its causes
	B2	Develop motivational interviewing skills to encourage patients to take preventive measures.
	B3	Increasing students' knowledge of dental examination methods and detecting caries and gingivitis
	B4	Learn how to assess patients' risk of dental disease based on factors such as oral hygiene, dietary habits and chronic diseases.

Values	C1	**Acquire skills in conducting clinical and periodic dental examinations for the early detection of dental problems.**
	C2	**Develop motivational interviewing skills to encourage patients and their families to take the necessary measures to treat their children's teeth and prevent the exacerbation of existing problems.**
	C3	**Acquire skills in conducting clinical and periodic dental examinations for the early detection of dental problems.**
	C4	**Develop motivational interviewing skills to encourage patients and their families to take the necessary measures to treat their children's teeth and prevent the exacerbation of existing problems.**

11. Teaching and Learning Strategies

1.	Preparing a professional and urging the student to positive behavior in his public life	4.	Employing the acquired skills in order for the student to become a dentist capable of treating patients
2.	Preparing scientific and urging the student to communicate in other fields of science	5.	Employing the acquired skills in order for the student to become a dentist capable of treating patients
3.	Cultural preparation and refinement of the student's personality	6.	Develop motivational interviewing skills to encourage patients and their families to take the necessary measures to treat their children's teeth and prevent the exacerbation of existing problems.

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12. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	**1**	Know how to screen and diagnose the disease in children	Diagnosis and treatment planning	Data Show and Blackboard Show	Daily exam Oral questions and discussions
2	**1**	Know how to screen and diagnose the disease in children	Preliminary medical and dental History. Clinical examination, Art and science of behavior management	Data Show and Blackboard Show	Daily exam Oral questions and discussions
3	**1**	Empowering students how to deal with children to attract children to the dental clinic and the ability to treat them in a comfortable atmosphere	Child development, Major area of development, Variables influencing children's dental behaviors, classification of children's behavior	Data Show showblack board and demonstration films	Daily exam Oral questions and discussions
4	**1**	Empowering students how to deal with children to attract children to the dental clinic and the ability to treat them in a comfortable atmosphere	Non pharmacologic management of patient behavior, Purpose, Classifying children, s communication methods	Data Show show, blackboard and demonstration films	Daily exam Oral questions and discussions
5	**1**	Empowering students how to deal with children to attract children to the dental clinic and the ability to treat them in a comfortable atmosphere	Pharmacologic management of patient behavior, Degree of sedation, Indications for pharmacological behavior management technique, Pretreatment documentation and assessment, Sedation in pediatric dentistry	Data Show show, blackboard and demonstration films	Daily exam Oral questions and discussions

6	**1**	Empowering students how to use sedatives in treating unwanted child behavior during dental treatment	Conscious sedation, Routes of drug administration, Enteral sedation, Rectal route, Intra muscular route, Intravenous route, Inhalation, Drugs and agents used for sedation, nitrous oxide general anesthes	Data Show and Blackboard Show	Daily exam Oral questions and discussions
7	**1**	Enabling students to treat teeth during and after an accident that leads to damage to children's teeth, oral tissues or jaw	management of traumatic injuries to the teeth and supporting tissues of children و Trauma to the face	Data Show and Blackboard Explanatory Films	Daily exam Oral questions and discussions
8	**1**	Enabling students to treat teeth during and after an accident that leads to damage to children's teeth, oral tissues or jaw	classification of injuries to the anterior teeth of children methods of clinical examination	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
9	**1**	Enabling students to treat teeth during and after an accident that leads to damage to children's teeth, oral tissues or jaw	Traumatic injuries of the primary teeth and its effect on permanent teeth	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
10	**1**	Empowering and teaching students how to treat children's teeth that are exposed to fracture or damage due to an accident	Treatment of injury of permanent teeth, emergency treatment, temporary restoration of fractured teeth	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
11	**1**	Enable students to know how to control pain and use anesthesia during treatment	Local anesthesia and pain control for children	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
12	**1**	Enable students to know how to control pain and use anesthesia during treatment	Anesthetizing mandibular and maxillary teeth and soft tissue	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
13	**1**	Enable students to know how to control pain and the use of anesthesia during treatment and	Complications after a local anesthetic	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions

		to know the complications that 1may occur after anesthesia			
14	**1**	Enable students to know the reasons for extracting milk teeth early	Oral surgery for children, Extraction of primary teeth	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
15	**1**	Enable students to know effective ways and means to eliminate and avoid infection	Infection manifestation and management	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
16	**1**	Enable students to know the diagnosis and treatment of gum infections in children and their relationship to public health	Gingivitis and periodontal disease in children: introduction simple gingivitis, eruption gingivitis, acute gingival disease; herpes simplex viral infection.	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
17	**1**	Enable students to know the diagnosis and treatment of gum infections in children and their relationship to public health	Acute candidacies (thrush), acute bacterial infection, chronic nonspecific gingivitis, gingival diseases modified by systemic factors.	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
18	**1**	Enable students to know the diagnosis and treatment of gum infections in children and their relationship to public health	Gingival lesions of genetic origin, ascorbic acid deficiency gingivitis.	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
19	**1**	Enable students to know the diagnosis and treatment of gum infections in children and their relationship to public health	Papillon – Lefevere syndrome, gingival recession, extrinsic stains and deposits on teeth	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
20	**1**	Enable students to know the appropriate ways to maintain the distance of permanent teeth and prevent the accumulation and crowding of permanent teeth	Management of space problems, planning for space maintenance, loss of primary incisors	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions

21	**1**	Enable students to know the appropriate ways to maintain the distance of permanent teeth and prevent the accumulation and crowding of permanent teeth	Space Maintenance for the First and Second Primary Molar and the Primary Canine Area, premature loss of second primary molar	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
22	**1**	Enable students to know the appropriate ways to maintain the distance of permanent teeth and prevent the accumulation and crowding of permanent teeth	Loss of the Second Primary Molar Before Eruption of the First Permanent Molar, Areas of Multiple Primary Molar Loss	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
23	**1**	Enable students to know the appropriate ways to maintain the permanent tooth distance and prevent the accumulation and crowding of teeth	Development of dental arch and occlusion; deciduous phase, mixed dentition phase.	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
24	**1**	Empowering students how permanent teeth emerge in the right places	Arch length analysis; Nance analysis, Moyers mixed dentition analysis, Tanaka and Johnston analysis, Bolton analysis.	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
25	**1**	Enable students to know the appropriate methods of treating patients with special needs	Dental problems of the disabled child, first dental visit, Radiographic examination, Preventive dentistry, Management of a child with special care needs during dental treatment	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
26	**1**	Enable students to know the appropriate methods of treating patients with special needs	Treatment immobilization, Intellectual disability, Down syndrome, Learning disability	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
27	**1**	Enable students to know the appropriate methods of treating patients with special needs	Fragile X syndrome, cerebral palsy, autism,	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions

28	**1**	Enable students to familiarize themselves with appropriate methods for treating patients with special needs and those with public health	Respiratory diseases, hearing loss, visual impairment, epilepsy	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
29	**1**	Enable students to familiarize themselves with appropriate methods for treating patients with special needs and those with public health	Heart disease, hemophilia, sickle cell anemia, viral hepatitis, AIDS, systemic diseases	Data Show and Blackboard + Explanatory Films	Daily exam Oral questions and discussions
30	**1**	Enable students to familiarize themselves with appropriate methods for treating patients with special needs and those with public health	Dental problems of the disabled child, first dental visit, Radiographic examination, Preventive dentistry, Management of a child with special care needs during dental treatment	Data Show show, blackboard and demonstration films	Daily exam Oral questions and discussions

13.Course Evaluation
Distribution of the score out of 100 according to: • Daily and quarterly exams for theoretical subject • Treatment of pediatric patients • Mid-Year Exam • Final exam

14.Learning & Teaching Resources	
Required textbooks (curricular if any)	McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2022 by ElsevierText book of pediatric dentistry Nikhil Marwa 2nd ed. 2019 New Delh
Main References (sources)	McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2022 by ElsevierText book of pediatric dentistry Nikhil Marwa 2nd ed. 2019 New Delh
Recommended Books & References (Scientific Journals, Reports …)	Read recent research in global journals
Websites or Electronic References	Google scholar, Research gates, ORCID

Course Description (1)

1. Course Title	Preventive Dentistry
2. Course Code	050506
3. Semester/Year	year
4. Description Preparation Date	2023-2024
5. Available Attendance Form	Lectures and Clinic
6. No. of Hours (Total)	30 hours lectures,37.5 clinical
7. No. of Credits (Total)	3.25
8. Course Administrator Name	Prof. Dr. Athraa Mustafa Salih
9. E-mail	Athraa.mu@albayan.edu.iq

10. Course Objectives		
Knowledge	A1	Gaining experience and information that will help him identify the disease and know causes
	A2	Develop motivational interviewing skills to encourage patients to take preven measures.
	A3	Increasing students' knowledge of methods for examining teeth and detecting caries a gingivitis
	A4	Learn how to assess patients' risks of dental disease based on factors such as c hygiene, dietary habits, tobacco use, and chronic diseases.
Skills	B1	Acquire skills in conducting clinical dental examinations for early detection of to decay.
	B2	Develop motivational interviewing skills to encourage patients to take prevent measures.
	B3	Identify the indications and techniques for applying fluoride treatments to strengthen tooth enamel and prevent tooth decay thinking skills
	B4	Qualifying students to examine, diagnose and treat patients, including children a the elderly
Values	C1	Motivating the student through the style of expression and thinking and the spe of communication and response
	C2	Urging the student to solve problems and possess distinctive thinking
	C3	The lecture depends on student interaction and brainstorming
	C4	The student will be able to create a preventive program for patients

11. Teaching and Learning Strategies			
1.	Lectures using Data show and power point.	4.	Electronic education
2.	Educational films	5.	Smart probes
3.	Monitors	6.	Practical application in the clinic

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12. The Structure of the Course					
Week	**Hours**	**Topic/Subject Name**	**RLOs**	**Learning Method**	**Evaluation Method**
1	1	Preventive dentistry (introduction)	Introduction to preventive Dentis and its level of prevention	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
2	1	Dental Caries development	Caries initiation ,appearance dental tissues	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
3	1	Fluoride in Dentistry	Fluoride in environment,fluor metabolism	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
4	1	Systemic fluoridation (history)	Types of systemic fluoride , ,milk a salt fluoridation	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
5	1	Communal water fluoridation	Natural fluoridation and fluor index	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
6	1	Fluoride supplements	Fluoride tablets	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
7	1	Topical fluoridation	mechanisms of topical fluoridatio ,application	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
8	1	Self applied fluoride	Self care ,fluorida toothpaste,mouth wash	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
9	1	Professionally applied fluoride	Types of topical fluoridation, ,in oral appliances	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
10	1	Toxicity of fluoride	Chronic toxicity,Acute toxicity a managements of acute toxicity	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
11	1	Microbiology of caries	Oral bacteriology plaque formatio	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
12	1	Cariogenic potential of bacteria	Streptococcus mutans , lactobacil	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
13	1	Fissure sealants	History of fissure sealants,types a application ,and fellow up	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam

14	1	New approach in restorative dentis	Minimal invasive Dentistry,Icon	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
15	1	Diet and dental caries	Definition of diet a nutrition,carbohydrates types a effect on dental caries,Stephan cu	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
16	1	Non- sugar sweeteners	Bulk sweeteners and types sweeteners	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
17	1	Dietary counseling in dental practi	Types and objectives	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
18	1	Nutrition and oral health	Effect of vitamins ,proteins a nutrition on teeth development a eruption	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
19	1	Nutrition, diet & periodontal disea	Vit C and vit D effect on gingivitis a periodontitis	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
20	1	Saliva and dental caries	Salivary function ,Buffering Capac ,flow rate and pH	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
21	1	Oral immune system	Passive immunity ,cellular immur and vaccination	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
22	1	Oral hygiene measures(Mechanica	Brushing techniques ,Dental floss and other dental care auxiliary	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
23	1	Oral hygiene measures (Chemical)	Therapeutic toothpaste, Mouth wash indication ,C Triclosan	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
24	1	Diagnosis of caries	Methods of diagnosis, visual tac ,radiography	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
25	1	Identification of high risk group	Objectives, age grou ,socioeconomic risk factors	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
26	1	Dental health of disabled and medically compromised patier	Types of physical disable, syster diseases, preventive programs	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
27	1	Geriatric dentistry	Definition ,effect of aging on der hard and soft tissues ,prevent programs	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam

28	**1**	Health education and motivation	Objectives Dental health education programs	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
29	**1**	Uses of LASER in dentistry	Mechanism of Laser ,Types of las effect on dental hard and soft tiss	Theoretical lectures using power point	Quizzes ,Monthly exam ,r and final exam
30	**1**	Prevention of peri-implantitis	Types of implants , prevent methods	Theoretical lectures using power point	

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13. Course Evaluation

Distribution of the score out of 100 according to the tasks assigned to the student, such as daily preparation, daily exams, oral, monthly, written and records.

First Semester + Second Semester 25%	Theoretical 10 clinical 15%
Half Year 15%	Theoretical 15%
Final Exam 60%	Theoretical 40% Clinical 20%
100%	Theoretical 65% **%**Clinical 35

14. Learning & Teaching Resources

Required textbooks (curricular if any)	-Primary Preventive Dentistry by Harris NO Garcia-GodoyF-NatheCN 8th Ed 2014 .
Main References (sources)	-Comprehensive preventive dentistry (2012) Edited by Hardy Limeback -Caries Management—Science and Clinical Practic Hendrik Meyer-Lueckel,Sebastian Paris,Kim R. Ekstrand, 2013 Georg Thieme Verlag KG Stuttgart,Germany
Recommended Books & References (Scientific Journals, Reports …)	-Textbook of geriatric dentistry, Third editionEdite byPoul Holm-Pedersen, Angus W. G. Walls, Jonath A. Ship, 2015 by JohnWiley & Sons Ltd. -Make periodic reports and read recent research in reputable journals
Websites or Electronic References	PubMed, Scopus, Elsevier, Google Scholar, Research Gates

1. Course Title	**Conservative dentistry**
2. Course Code	**050508**
3. Semester/Year	**annual**

4. Description Preparation Date	2024-2023
5. Available Attendance Form	weekly
6. No. of Hours (Total)	30 theoretical hours180My work hour
7. No. of Credits (Total)	8
8. Course Administrator Name	assistant lecturer . Simaa Abdulameer Kadhem
9. E-mail	simaa.a@albayan.edu.iq

10. Course Objectives		
Knowledge	A1	Training the student on how to examine and diagnose medical conditions
	A2	Giving important information and treatment steps
	A3	Giving instructions and following up on root filling operations
	A4	Giving instructions and following up on bridge and crown operations
Skills	B1	Description of the tools used to prepare canals for root fillings
	B2	Description of the tools used for steps to prepare teeth for crowns and bridges
	B3	Teaching the student how to use it and following up on it while working
	B4	
Values	C1	Solve problems
	C2	Able to drive
	C3	
	C4	

14. Teaching and Learning Strategies			
1.	Data show	4.	educational movies
2.	lecture	5.	occasional cameras
3.	LCD	6.	

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15. The Structure of the Course					
Week	**Hours**	**RLOs**	**Topic/Subject Name**	**Learning Method**	**Evaluation Method**
1	1	Endodontic diagnosis	Conservative dentistry	Theoretical lecture using the programpower point	Short, semester, mid-year final exams
2	1	Pain control in endo.	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
3	1	Endodontic radiography	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
4	1	Intracanal instruments (1)	Conservative dentistry	Theoretical lecture using programpower point	Short, semester, mid-year final exams
5	1	Intracanal instruments (2)	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
6	1	Preparation of RCS	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
7	1	Microbiology	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
8	1	Introduction And Definition Of Fixed Bridges And	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams

		Comparison With Partial Denture.			
9	1	Clinical consideration For Bridge Construction	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
10	1	Rc filling material	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
11	1	Obturation of RCS (1)	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
12	1	Obturation of RCS (2)	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
13	1	Endo. Emergency treatmentmen	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
14	1	Endo-period relations	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
15	1	Restoration of endo. treated teeth	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
16	1	Tooth discoloration & bleaching	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams

17	1	Advantages and Disadvantages Of Fixed	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
18	1	Patient Selection And Examination	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
19	1	Types Of Retainer	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
20	1	Gingival Displacement.	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
21	1	Impression Materials And Procedure.	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
22	1	Types Of Bridge.	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
23	1	Tooth discoloration & bleaching	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams

24	1	Bite Registration and Articulation	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
25	1	Temporay Restoration	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
26	1	Temporay Bridges	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
27	1	Pontic And Pontic Design	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
28	1	Porcelain Material.	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
29	1	Try In and Shade Selection	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams
30	1	Failure in Crown & Bridge	Conservative dentistry	Theoretical lecture us the programpower po	Short, semester, mid-year final exams

11.Course Evaluation	
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.	
12.Learning & Teaching Resources	
Required textbooks (curricular if any)	• **Cohens pathways of the pulp** • **Contemporary Fixed Prosthodontics** • **Rosentetiel.Land.Fugimoto**
Main References (sources)	
Recommended Books & References (Scientific Journals, Reports …)	**Make periodic reports and read recent research in reputable journals**
Websites or Electronic References	**Electronic references, Internet sites**

Clinical Requirements

Minimum Requirement	Hours
The students are required to complete the following restorations:- Amalgam Restorations .a Class I, Class II, Compound and complex restorations. Composite (tooth colored) Restorations .b Class I, Class II, Class III, Class IV, and Class V. Fixed prosthesis including crown and bridge work. .c Endodontic treatment for anterior teeth and premolars. .d Seminars .e	6h/wk
Total	**180 h/year**