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

University of Alkafeel

College of Dentistry

Academic Program and Course Description Guide

2024

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: **University of Alkafeel**

Faculty/Institute: **College of Dentistry**

Academic or Professional Program Name: **Bachelour in Dentistry**

Final Certificate Name: **B D S**

Academic System: **Annual**

Description Preparation Date: **2024**

File Completion Date: **2024**

Signature:

Director of the Quality Assurance and University Performance Department::

Lec. Dr. Mohammed Zuhair

Date:2024

Signature:

Scientific Associate Name:

Lec. Dr Mohammed Hassan

Date:2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Lec. Dr. Mohammed Zuhair

Date: **2024**

Signature:

Approval of the Dean

Assist.Prof Dr Kareem M. Alghanim

1. **Program Vision**
A prestigious college locally and internationally with a typical educational environment in dental sciences

2. **Program Mission**
Following the latest approved standards and consorating scientific research to prepare qualified cadres in dentistry to suit the need of society and the modernity in the profession.

3. **Program Objectives**
1. Rehabilitation of cadres capable of diagnosis, treatment and follow-up of patients 2. Transferring the knowledge and skills of dentistry through university education, continuing education and postgraduate studies 3. Promoting moral and educational values and responsibility in providing health care 4.Involve students in keeping pace with and developing knowledge through scientific research.

4. **Program Accreditation**
The application was submitted for accreditation by the National Council for Accreditation of Dental Colleges in Iraq

5. **Other external influences**
The Education Authority at the Abbasid Holy Shrine is considered the sponsoring body

6. **Program Structure**				
Program Structure	**Number of Courses**	**Credit units**	**Percentage**	**Reviews***
College Requirements	**44**	**225**	**100%**	**Basic**
Summer Training	**2**		**100%**	**Basic**

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

Program Description				
Credit Hours		**Course Title**	**Course Code**	**Year**
Practice	**Theory**			
2	**1**	**التشريح العام (human anatomy)**	**DNK1-HA**	**First-year**
	1	**المصطلحات الطبية (medical terminology)**	**DNK1-EN**	
2	**1**	**علوم الحاسبات (computer sciences)**	**DNK1-CO**	
2	**1**	**تشريح الاسنان (dental anatomy)**	**DNK1-DA**	
	1	**حقوق الانسان و الديمقراطية (human right and democracy)**	**DNK1-HR**	
2	**2**	**الكيمياء الطبية (medical chemistry)**	**DNK1-CH**	
2	**2**	**الفيزياء الطبية (medical physics)**	**DNK1-PH**	
2	**2**	**الاحياء الطبية (medical biology)**	**DNK1-BI**	
	1	**اللغة العربية**	**DNK1-Ar**	

Program Description				
Credit Hours		Course Title	Course Code	Year
Practice	Theory			
2	1	dental) المادة السنية (material)	DNK2-DM	Second-year
4	1	صناعة الاسنان (prosthodontics)	DNK2-PR	
2	2	الكيمياء الحياتية (biochemistry)	DNK2-CH	
2	2	الانسجة العامة (general histology)	DNK2-GP	
2	2	فسلجة عامة general) (physiology	DNK2-GP	
2	1	انسجة الفم وعلم الاجنة (oral histology)	DNK2-OH	
2	1	التشريح العام (anatomy)	DNK2-GA	
	1	جرائم حزب البعث Ba`ath party crimes	DNK2-BC	

Program Description				
Credit Hours		Course Title	Course Code	Year
Theory	Theory			
2	2	احياء مجهرية (microbiology)	DNK3-MB	Third-year
2	2	علم الادوية (pharmacology)	DNK3-PH	
	1	طب مجتمع community) (dentistry	DNK3-CM	
4	2	معالجة اسنان conservative) (dentistry	DNK3-OP	
2	1	اشعة الفم (dental radiology)	DNK3-RD	
2	1	الامراض العامة (general pathology)	DNK3-GP	
2	1	جراحة الفم (oral surgery)	DNK3-OS	
2	1	صناعة الاسنان (prosthodontics)	DNK3-PR	
	1	اخلاقيات طب الاسنان Dental ethics	DNK3-DA	

Program Description				
Credit Hours		Course Title	Course Code	Year
Theory	Theory			
2	1	general) الطب العام (medicine	DNK4-GM	Fourth-year
2	1	الجراحة العامة (general surgery)	DNK4-GS	
4	1	جراحة الفم (oral surgery)	DNK4-OS	
4	1	معالجة اسنان conservative) (dentistry	DNK4-OP	
4	1	امراض الفم (oral pathology)	DNK4-OP	
4	1	تقويم الاسنان (orthodontic)	DNK4-OR	
	1	طب اسنان الاطفال (pedodontic)	DNK4-PD	
4	1	امراض و جراحة ما حول الاسنان (periodontics)	DNK4-PE	
4	1	صناعة الاسنان (prosthodontics)	DNK4-PR	

Program Description				
Credit Hours		Course Title	Course Code	Year
Theory	Theory			
4	1	معالجة اسنان conservative) (dentistry	DNK5-OP	Fifth-year
4	1	طب الفم (oral medicine)	DNK5-OM	
4	1	جراحة الفم (oral surgery)	DNK5-OS	
4	1	طب اسنان الاطفال (paedodontics)	DNK5-PD	
4	1	طب الاسنان الوقائي (preventive)	DNK5-PV	
4	1	صناعة الاسنان (prosthodontics)	DNK5-PR	
4	1	تقويم الاسنان (orthodontics)	DNK5-OR	
4	1	امراض و جراحة ما حول الاسنان (periodontics)	DNK5-PE	
	1	مشروع التخرج Graduation project	DNK-5GP	

Expected learning outcomes of the program
Knowledge
A1 – The student acquires comprehensive knowledge of the scientific terminology used in dentistry and the subject the theory . A2 – The student gets to know the different types of materials and devices used in the field of dentistry. A3 – Enhancing the student's confidence to deal with all types of patients. A4 – Developing the student's ability to deal with different therapeutic cases. A5 – Enhancing the principle of participation of a group of students to discuss a medical condition and the method of treating it. A6 – Providing the student with complete knowledge that enables him to prepare an integrated treatment plan for the patient
Skills
B1 - Promoting professional ethics and dealing with patients among graduates B2 - Students acquire various therapeutic skills B3 - Promoting the principle of continuous, lifelong learning in order to continue developing the profession
Ethics
C1 - Thinking skill according to the student's ability) (The goal of this skill The student believes in what is tangible (the student's ability) and understands when, what and how he should think and work to improve The ability to think reasonably. C2 - Critical thinking skill (which aims to present a problem and analyze it logically And reach the desired solution. C 3 - The student's awareness of the necessity of balance between freedom and responsibility. C4 - The skill of making the right decision for the benefit of the patient based on logical thinking

1. **Teaching and Learning Strategies**
Giving lectures. Lectures encourage students and teach them ways to confront and solve problems. - Monitoring the way students think, their ways of expression, and their speed of response. - Experiments in laboratories. - self education - Providing students with lectures on the college website. - Educational films. - Projectors and digital cameras. - Using educational models. - Training courses and workshops. - Applied clinical education. - Student groups.

2. **Evaluation methods**
- Theoretical tests. - Oral exams. - Laboratory practical tests. - Practical mannequin tests. –Practical tests on patients. - Reports and studies.

3. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	3	1			3	1
Assist.Prof.	4	6			8	2
Lecturer	6	9			11	4
Assist. Lec	13	8			16	5

Professional Development

Mentoring new faculty members

Orienting new faculty members toward professional development includes several steps:

• Holding weekly seminars and presentations to develop their skills in giving lectures and conducting scientific research.

• Encouraging them to participate in the Continuing Education Division's courses, scientific activities, and academic workshops

• Supporting them to participate in conferences

Professional development of faculty members

• The college works to improve the personal performance of faculty members and enhance their career advancement in order to raise the efficiency of graduates and raise the level of their knowledge and skills within the primary health care system. Therefore, one of the requirements for promoting its teaching staff is active participation in establishing and attending continuing professional development activities such as workshops, seminars, and courses.

• Contributing to the organization of college conferences by presenting their work and supervising their organization by summarizing the academic and professional development plan and arrangements for faculty members, such as teaching and learning strategies, evaluating learning outcomes, professional development, etc.

4. Acceptance Criterion

Admission criteria include students who have a certain cumulative average according to the central admission system, as well as...

Selecting students who have the physical, mental, and social ability to manage any medical condition or practice required by the study.

Most dental schools require personal interviews with candidates to evaluate qualities such as a desire to help people,

Self-confidence, the ability to face challenges, the ability to work with people and the ability to work independently

5. The most important sources of information about the program

1. The website of the college and university.
2. University guide.
3. College books and scientific resources.

6. Program Development Plan

- Developing and updating the program according to the requirements of the labor market through the work of committees responsible for updating the curricula
- Conducting questionnaires periodically for beneficiaries of students and employers in hospitals and private centers
- Expanding the use of electronic technologies in teaching
- Directing students' research towards applied projects that address societal problems

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
First Year	DNK1-HA	التشريح العام (human anatomy)	basic	×	×			×	×	×	×	×	×	×	×
	DNK1-EN	المصطلحات الطبية (medical terminology)	basic	×	×			×	×	×	×	×	×	×	×
	DNK1-CO	علوم الحاسبات (computer sciences)	basic	×	×			×	×			×	×	×	×
	DNK1-DA	تشريح الاسنان (dental anatomy)	basic	×	×			×	×	×	×	×	×	×	
	DNK1-HR	حقوق الانسان و الديمقراطية (human right and	basic	×	×			×			×		×	×	

		democracy(													
	DNK1-CH	) الكيمياء الطبية medical chemistry (	basic	×	×			×	×	×	×	×	×	×	
	DNK1-PH	) الفيزياء الطبية medical physics(	basic	×	×			×	×	×	×	×	×	×	×
	DNK1-BI	الاحياء الطبية)medical biology (	basic	×	×			×	×	×		×	×	×	×
	DNK1-Ar	اللغة العربية	basic	×	×			×	×	×	×	×	×	×	×
Second Year	DNK2-DM	) المادة السنية dental material (	basic	×	×			×	×	×	×	×	×	×	×
	DNK2-PR	) صناعة الاسنان prosthodontics (	basic	×	×			×	×	×	×	×	×	×	×
	DNK2-CH	الكيمياء الحياتية)biochemistry (	basic	×	×			×	×			×	×	×	×
	DNK2-GP	الانسجة العامة)general	basic	×	×			×	×	×	×	×	×	×	

		histology(													
	DNK2-GP	فسلجة عامة)general physiology(	basic	×	×			×			×		×	×	
	DNK2-OH	انسجة الفم وعلم الاجنة)oral histology (	basic	×	×			×	×	×	×	×	×	×	
	DNK2-GA	التشريح العام)anatomy (	basic	×	×			×	×	×	×	×	×	×	×
	DNK2-BC	جرائم حزب البعث Ba`ath party crimes	basic	×	×			×	×	×		×	×	×	×
Third Year	DNK3-MB	احياء مجهرية) microbiology(	basic	×	×			×	×	×	×	×	×	×	×
	DNK3-PH	علم الادوية) pharmacology (	basic	×	×			×	×	×	×	×	×	×	×
	DNK3-CM	طب مجتمع) community	basic	×	×			×	×			×	×	×	×

		dentistry(													
	DNK3-OP	معالجة اسنان)conservative dentistry(	basic	×	×			×	×	×	×	×	×	×	
	DNK3-RD	اشعة الفم) dental radiology(	basic	×	×			×			×		×	×	
	DNK3-GP	الامراض العامة) general pathology(	basic	×	×			×	×	×	×	×	×	×	
	DNK3-OS	جراحة الفم)oral surgery(	basic	×	×			×	×	×	×	×	×	×	×
	DNK3-PR	صناعة الاسنان)prosthodontics(	basic	×	×			×	×	×		×	×	×	×
	DNK3-DA	اخلاقيات طب الاسنان Dental ethics	basic	×	×			×	×	×	×	×	×	×	×
Fourth Year	DNK4-GM	الطب العام)general medicine(	basic	×	×			×	×	×	×	×	×	×	×
	DNK4-GS	الجراحة العامة	basic	×	×			×	×	×	×	×	×	×	×

		)general surgery(													
	DNK4-OS	جراحة الفم) oral surgery(	basic	×	×			×	×			×	×	×	×
	DNK4-OP	معالجة اسنان)conservative dentistry(	basic	×	×			×	×	×	×	×	×	×	
	DNK4-OP	امراض الفم)oral pathology(	basic	×	×			×			×		×	×	
	DNK4-OR	تقويم الاسنان)orthodontic (	basic	×	×			×	×	×	×	×	×	×	
	DNK4-PD	طب اسنان الاطفال) pedodontic(	basic	×	×			×	×	×	×	×	×	×	×
	DNK4-PE	امراض و جراحة ما حول الاسنان)periodontics(	basic	×	×			×	×	×		×	×	×	×
	DNK4-PR	صناعة الاسنان) prosthodontics (	basic	×	×			×	×	×	×	×	×	×	×
Fifth Year	DNK5-OP	معالجة اسنان)conservative	basic	×	×			×	×	×	×	×	×	×	×

		dentistry(													
	DNK5-OM	طب الفم) oral medicine(	basic	×	×			×	×	×	×	×	×	×	×
	DNK5-OS	جراحة الفم) oral surgery(	basic	×	×			×	×			×	×	×	×
	DNK5-PD	طب اسنان الاطفال) paedodontics(	basic	×	×			×	×	×	×	×	×	×	
	DNK5-PV	طب الاسنان الوقائي)preventive(	basic	×	×			×			×		×	×	
	DNK5-PR	صناعة الاسنان)prosthodontics (	basic	×	×			×	×	×	×	×	×	×	
	DNK5-OR	تقويم الاسنان)orthodontics (	basic	×	×			×	×	×	×	×	×	×	×
	DNK5-PE	امراض و جراحة ما حول الاسنان)periodontics (	basic	×	×			×	×	×		×	×	×	×
	DNK-5GP	مشروع التخرج Graduation project	basic	×	×			×	×	×	×	×	×	×	×

Courses Description

Course description for the Department of Oral Surgery and Diagnosis

The Second	**Educational level:**
Oral surgery and oral diagnostics	**Specialization:**
General anatomy	**Name of the study subject in Arabic**
General anatomy	**Name of the course in English:**
1. To know the principles and fundamentalbasis of human anatomy and most important vital structure and relation to dentistry To study the relation between human anatomy and surgical procedure	**Objectives of the article:**
This course deals with the study of human anatomy that may be performed in the dental office like local anesthesia and oral surgery .	**Material description:**
60	**Number of theoretical hours:**
60	**Number of practical hours:**
	number of units:
زياد فيصل حسين	**Teacher's name in Arabic:**
Ziad faisal hussein	**Teacher's name in English:**
مدرس مساعد	**The scientific title:**
	University email address:
	Mobile phone number: (WhatsApp)

The prescribed curriculum/theoretical part:

Week	Syllabus
1	Nasal cavity and paranasal sinus
2	The orbit
3	The air
4	The cranial fossa
5	The brain
6	The cranial nerve
7	The base of the skull
8	Temperal and infratemperal fossa
9	The neck part one
10	The neck part two
11	Deep neck part one
12	Deep neck part two
13	pharynx
14	larynx
15	Main vessels of the neck
16	The back part one
17	The back part two
18	Thoracic wall
19	Thoracic cavity
20	Mediastinum
21	Heart
22	Main vessel of chest
23	Abdominal wall
24	The abdominal viscera
25	The abdominal viscera
26	The abdominal viscera
27	The abdominal viscera
28	The abdominal viscera
29	Upper limb
30	Lower limb

Practical curriculum/practical part:

Week	Syllabus
1	Nasal cavity and paranasal sinus
2	The orbit
3	The air
4	The cranial fossa
5	The brain
6	The cranial nerve
7	The base of the skull
8	Temperal and infratemperal fossa
9	The neck part one
10	The neck part two
11	Deep neck part one
12	Deep neck part two
13	pharynx
14	larynx
15	Main vessels of the neck

References:

Main references:

1-Textbook snell human anatomy Third Edition 2011

2-Neters Principles of head and neck anatomy in dentistry - Third Edition 2018

3-clinical handbook of human anatomy

4-Contemporary oral and maxillofacial surgery_hupp_ellis_tucker

5-Text book of human anatomy atlas forth edition

the second	**Educational level:**
Oral histology	**Specialization:**
Oral histology	**Name of the course in Arabic:**
Oral histology	**Name of the study subject in English:**
1-1 The student should learn about how oral tissues and teeth are formed before birth - 2 The student will learn about the nature of oral tissues, including teeth and jaw bones -3 The student should be familiar with the names and locations of these tissues, as well as identify them under the microscope and clinically	**Objectives of the course**
Studying the components of calcified tissues, including dentin and pulp, linking the apparent appearance of the various components in the mouth, their vital functions, and the stages of formation of all these tissues.	**course description:**
2	**Number of theoretical hours:**
2	**Number of practical hours:**
	number of units:
زينب هاشم مرتضى	**Teacher's name in Arabic:**
Zaunab hashem murtada	**Teacher's name in English:**
مدرس مساعد	**The scientific title:**
	University email address:
	Mobile phone number: (WhatsApp)

Course curriculum/theoretical part:

Week	Syllabus
1	Preparation of tissues for histological study
2	Early tooth development
3	Bell stage
4	Root formation
5	Enamel
6	Amelogenesis
7	Dentinogenesis
8	Dentine
9	Cementum
10	Pulp
11	Periodontal ligament
12	Bone
13	Oral mucosa
14	TMJ
15	Salivary glands
16	Teeth shedding

Course curriculum/practical part:

w	Syllabus
1	Preparation of tissues for histological study
2	Early tooth development
3	Bell stage
4	Root formation
5	Enamel
6	Amelogenesis
7	Dentinogenesis
8	Dentine
9	Cementum
10	Pulp
11	Periodontal ligament

12	**Bone**
13	**Oral mucosa**
14	**TMJ**
15	**Salivary glands**
16	**Teeth shedding**

:References

Main references:

[1] Ten Cate's

Third	**Educational level:**
Dentist	**Specialization:**
Oral x-ray	**Name of the course in Arabic:**
Oral radiology	**Name of the study subject in English:**
The goal of the program is to qualify dentists who are able to read and diagnose x-ray images, how to operate x-ray machines correctly, and how to dealing with radiation risks.	**Objectives of the course:**
The general characteristics of x-ray and their effect on Living organisms and ways to prevent their damage.	**course description:**
30	**Number of theoretical hours:**
60	**Number of practical hours:**
4	**number of units:**
وهاب رزاق جاسم الركابي	**Teacher's name in Arabic:**
Wahhab razaq gassim al-rikaby	**Teacher's name in English:**
مدرس	**The scientific title:**
Wahhab.razzaq@alkafeel.edu.iq	**University email address:**
07816401877	**Mobile phone number: (WhatsApp)**

Course curriculum/theoretical part:

Week	Syllabus
1	Introduction, outline of the course, history of dental radiation, x-radiation properties, radioactivity, uses of x-radiation. The cathodes, anode, target, focal area, size into x-radiation.
2	Introduction, outline of the course, history of dental radiation, x-radiation properties, radioactivity, uses of x-radiation. The cathodes, anode, target, focal area, size into x-radiation.
3	The x-ray beam, position and shape, inverse square law, rectification, x-ray spectrum, filtration and collimation. Unmodified scattering, modified scattering Compton effect,Characteristic radiation.Half, value layer For measurement,lionization chambers. Film. Dosimeter, chemical the thermoluminesscent.
4	The x-ray beam, position and shape, inverse square law, rectification, x-ray spectrum, filtration and collimation. Unmodified scattering, modified scattering Compton effect,Characteristic radiation.Half, value layer For measurement,lionization chambers. Film. Dosimeter, chemical the thermoluminesscent.
5	Dental x-ray films, intra oral films, construction, size and speed, extra oral films, screen and non-screen, chemistry of screens, speedcassettes, size.
6	Film properties, density, contrast, detail or definition.
7	Latent image and film processing, latent image formation. Developing, fixing, manual and automatic processing, developer, fixer.
8	The darkroom, size and location, construction and design, equipment, safe light, testing for safe light (coin test), film identification, intraoral and extraoral films, film and equipment storage.
9	The radiograph, radiograph quality, principles of shadow, casting, artifacts due to exposure, processing, fog and rough handling
10	Viewing of the radiograph, image quality and projection, Geometry, optical illusions, viewing equipment and mounts, viewing technique.

11	X-radiation protection, protection of the patient, film speed, collimation, filtration, and developing techniques, film placement and angulation procedures,distance and kilovoltage, lined cylinders and protective aprons.
12	X-radiation protection, protection of the patient, film speed, collimation, filtration, and developing techniques, film placement and angulation procedures,distance and kilovoltage, lined cylinders and protective aprons.
13	Protection for the operator,position, distance , barriers, radiationprotection for associated person, regulatory measurements, monitoring procedures.
14	Hazards, effects of radiation on living tissue, ionization, direct andindirect effects, tissue variability, whole body radiation, specific area radiation, individual variability, latent period, radiation of genetic tissues, effects on somatic tissues.
15	Hazards, effects of radiation on living tissue, ionization, direct andindirect effects, tissue variability, whole body radiation, specific area radiation, individual variability, latent period, radiation of genetic tissues, effects on somatic tissues.
16	Intra oral radiographic technique, bisecting and paralleling techniques, theory of the paralleling technique, theory of the bisecting technique compared, position of patient, film placementand angulation procedures using the paralleling technique, horizontal and vertical angulation.
17	Intra oral radiographic technique, bisecting and paralleling techniques, theory of the paralleling technique, theory of the bisecting technique compared, position of patient, film placementand angulation procedures using the paralleling technique, horizontal and vertical angulation.

18	Film placement and procedures using the bisecting techniquecompromise procedures combining paralleling and bisecting techniques.
19	Film placement and angulation procedure using bite- wing films, alternative film holding devices.
20	Film placement and angulation produces using occlusal film to radiograph occlusal, view-cross-occlusal view.
21	Panoramic radiography.
22	Panoramic radiography.
23	Extra oral radiography (essential).
24	Extra oral radiography (specialized).
25	Normal radiographic anatomical landmarks.
26	Common diseases of teeth and surrounding tissues.
27	Digital radiography: a- Physical principles. b- Clinical applications. c- Advantages and disadvantages. d- Radiographic interpretation.
28	Computerized Tomography (CT)
29	Magnetic Resonance Imaging(MRI)
30	**CBCT**

Course curriculum/practical part:

Week	Syllabus
1	Dental x-ray films, intra oral films, construction, size and speed, extra oral films, screen and non-screen, chemistry of screens, speedcassettes, size.
2	Film properties, density, contrast, detail or definition.
3	Latent image and film processing, latent image formation.

	Developing, fixing, manual and automatic processing, developer, fixer.
4	The radiograph, radiograph quality, principles of shadow, casting, artifacts due to exposure, processing, fog and rough handling
5	X-radiation protection, protection of the patient, film speed, collimation, filtration, and developing techniques, film placement and angulation procedures,distance and kilovoltage, lined cylinders and protective aprons.
6	Intra oral radiographic technique, bisecting and paralleling techniques, theory of the paralleling technique, theory of the bisectingtechnique compared, position of patient, film placement and angulation procedures using the paralleling technique, horizontal and vertical angulation.
7	Film placement and procedures using the bisecting technique compromise procedures combining paralleling and bisecting
8	Film placement and procedures using the bisecting technique compromise procedures combining paralleling and bisecting
9	Film placement and angulation procedure using bite- wing films, alternative film holding devices.
10	Panoramic radiography.
11	Normal radiographic anatomical landmarks.
12	Normal radiographic anatomical landmarks.
13	Common diseases of teeth and surrounding tissues.
14	Computerized Tomography (CT)
15	Cone beam Computerized Tomography CBCT

References

[1]Oral Radiology Principles And Interpretation Stuart C.White Michael J.Pharoah SixthEdition

[2]A Short Text Book Of Oral Radiology 2018 White Michael J.Pharoah Sixth Edition

[3]Cone Beam Computed Tomography Pietro Caruso .Enzo Silvestri Luca MariaSconfienza 2014

1. 1. Course name

Oral pathology

2. 2. Course code

3. 3. Semester/year

Two/fourth semesters

4. 4. The date this description was prepared

2023/10/09

5. 5. Available attendance forms

presence

6. 6. Number of study hours (total)/number of units (total)

60 hours of study. Number of study units: 7 units

7. 90 practical hours

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8. 8. Course objectives

Objectives of the study material: To prepare dentists who able to understand the causes of various diseases that affec mouth	Objectives of the study material:

9. 1. Teaching and learning strategies

The strategy	The strategy

10.

Evaluation method	Learning method	Name of topic	hours	week
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Introduction**	**2**	1
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Principles of biopsy techniques**	2	2
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Dental caries**	2	3
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Pulp pathology**	2	4
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Periapical pathology**	2	5
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**osteomyltis**	2	6
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Giant cell lesions**	2	7
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Fibro-osseous lesions**	2	8
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Developmental disturbances. of teeth**	2	9
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Developmental disturbances of orofacial rejoin**	2	10
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Benign Bone neoplasms**	2	11
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Malignant bone neoplasms**	2	12
Evaluation method	A theoretical lecture using Power Point	**Developmental Cysts of the jaw**	2	13

Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**odontogenic cysts**	2	14
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Benign Odontogenic tumors**	2	15
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Malignant odontogenic tumours**	2	16
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Oral mucosal lesions**	2	17
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Vesiculo-bulbous lesions**	2	18
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Oral Premalignant lesions**	2	19
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Oral ulcerative lesions**	2	20
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Diseases of salivary glands**	2	21

Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**tumors of salivary glands**	2	22

Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**White lesions and red lesions**	2	23
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Benign soft tissue tumors and tumor like lesions.**	2	24
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Oral cancer**	2	25
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Bone diseases (Genetic diseases, metabolic diseases)**	2	26
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Pigmented oral lesions**	2	27
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Connective tissue neoplasms**	2	28
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**Hematopoietic malignancies**	2	29
Short, semester, mid-year and final exams	A theoretical lecture using Power Point	**T.M.J. pathology**	2	30

Principles of biopsy techniques			Course evaluation .11
Dental caries			6% for the first and second semester exams 2% attendance and interaction during the academic year 7% daily exams during the theoretical lecture 15% mid-year exam %30 Theoretical annual quest final exam %35 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. **Theoretical** part: 65% Theoretical exams include essay questions and multiple choices to measure the student's understanding of the scientific material and his ability to express his answer correctly. 10% Annual practical endeavor: 4% practical semester exam 2% attendance and interaction 4% in-laboratory seminar 10% Annual practical endeavor: 4% practical semester exam 2% attendance and interaction 4% in-laboratory seminar Practical part 35%
Pulp pathology			1. Learning and teaching resources .11
Periapical pathology			Required textbooks (methodology, if any)
osteomyltis		Oral and maxillofacial pathology. Brad Neville, Douglas Damm Ca Allen and Jerry Bouquet. 4 the edition. 20 Elsevier.	Main references (sources)

Giant cell lesions		orts published on the college website	Recommended supporting books and references (scientific journals, reports....)
Fibro-osseous lesions		College website	Electronic references, Internet sites

1. Course name
Periodontal diseases and surgery

2. Course code
3. Semester/year
the fourth year
4. The date this description was prepared
2023-9-10
5. Available attendance forms
presence
6. Number of study hours (total)/number of units (total)
Theoretical 1
Practical 2

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12 .Course objectives

•Providing students with basic scientific knowledge about gum diseases •Developing students' skills in treating various gum disease cases. •Training students to treat cases practically. •Encouraging students to pursue scientific research in the field of g diseases.	**Objectives of the study subject**

12. Teaching and learning strategies

•Applying education based on individual differences in teaching periodontal disease: The teacher can modify the educational content or teaching methods to meet the needs of different students. For example, a teacher can provide more support to students who are having difficulty understanding certain material. •Work-based learning in clinics: where students learn through casework in educational clinics •Create a website that contains educational content about periodontal disease, such as vide presentations, and articles. Students can access this content anytime, anywhere.	**strategy**

13 .Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	week
Daily exams, seminars, and a quarterly exam	Theoretical lectures and presentation using PowerPoint and practical treatment of cases of gum disease	*Terms & definitions frequently used in periodontology*	Oral mucosa Gingiva- o Macroscopic :features i- Marginal gingiva ii- Attached gingiva iii- Interdental papilla.	**3**	**1**
		Anatomy of the periodontium	*o Microscopic features:* *i- Oral epithelium* *ii- Sulcular epithelium* *iii- Junctional epithelium* *iv- Epithelial connective tissue interface* *v- Gingival connective tissue (gingival fibers and cellular elements)* *o Gingival sulcus and gingival crevicular fluid* *o Blood Supply, Lymphatics, and Nerves* *o Clinical features of gingiva in health and*	**3**	**2**

			disease: *i- Color* *• Physiologic pigmentation* *ii- Size* *iii- Contour* *iv- Shape* *v- Consistency* *vi- Texture* *vii- Position*		
		Periodontal ligaments (PDL)	*o Cellular elements* *o Ground substance* *o Development of principal fibers of PDL* *o Functions of periodontal ligaments:* *i- Physical functions* *ii- Formative and Remodeling Function* *iii- Nutritional and sensory functions* *o Clinical consideration*	**3**	**3**
		-Cementum	*-Cementum* *o Definition* *o Function of cementum* *o Classification of cementum:* *i- Acellular afibrillar cementum* *ii- Acellular extrinsic fiber cementum* *iii- Cellular mixed stratified cementum* *iv- Cellular intrinsic fiber cementum* *o Development and mineralization of cementum* *o Cementoenamel junction* *o Cementodentinal junction* *o Thickness of Cementum in response to physiologic and pathologic conditions* *i- Normal thickness* *ii- Cemental aplasia*	**3**	**4**
		-Alveolar process	*o Definition* *o Function of alveolar process* *o Parts of the alveolar process*	**3**	**5**

			i- Alveolar bone proper *ii- An external plate of cortical bone* *iii- Cancellous trabeculae or spongy bone* *o Basal bone* *o Anatomic division of the alveolar process* *i- Interproximal bone* *ii- Inter radicular bone* *iii- Radicular bone*		
		Classification of periodontal diseases and conditions (2017)	*- Reasons for classification* *- Major changes from previous classification* *- Periodontal health and gingival diseases and conditions* *Periodontal health and gingival health:* *o Clinical gingival health on an intact periodontium* *o Clinical gingival health on a reduced periodontium:* *i- Stable periodontitis* *ii- Non-periodontitis patients* *The classification of dental biofilm induced gingivitis:* *o Associated with bacterial dental biofilm only* *o Mediated by systemic or local risk factors*	**3**	**6**
		Classification of periodontal diseases and conditions (2017)	*-Periodontitis* *o Periodontitis (Extent, Staging, Grading, Status, Risk factors)* *o Necrotizing periodontal diseases:* *i- Necrotizing gingivitis* *ii- Necrotizing periodontitis* *iii- Necrotizing Stomatitis)* *o Periodontitis as a manifestation of systemic disease* *-Peri-implant disease and conditions: §* *o Peri- implant health* *o Peri-implant mucositis* *o Peri-implantitis*	**3**	**7**
		Etiology of periodontal	*-Periodontal disease*	**3**	8

		disease	*pathogenesis* *o Mechanisms of pathogenicity* *o Histopathology of periodontal disease:* *i- Clinically healthy gingival tissues* *ii- Histopathology of gingivitis and periodontitis:* *• The initial lesion* *• The early lesion* *• The established lesion* *• The advanced lesion* *o Inflammatory responses in the periodontium:* *i- Microbial virulence factors*		
		Etiology of periodontal disease and risk factors	*Dental plaque biofilm and periodontal microbiology* *- Definitions:* *o Supragingival plaque* *o Subgingival plaque* *- Structure of a mature dental plaque biofilm* *- Accumulation of a dental plaque biofilm:* *o Formation of the pellicle* *o Initial adhesion/attachment of bacteria* *o Colonization and plaque maturation* *- Factors affecting supragingival dental plaque formation*	**3**	9
		*Microbiologic specificity of periodontal diseases*and dentin bonding	*- Traditional nonspecific plaque hypothesis* *- Specific plaque hypothesis* *- Updated nonspecific plaque hypothesis* *- Ecologic plaque hypothesis* *- Keystone Pathogen Hypothesis*	**3**	**10**
		Dental calculus	*- Clinical appearance and distribution (Supragingival and Subgingival Calculus)* *- Calculus formation:* *o Theories of calculus formation* *- Calculus composition:*	**3**	**11**

			o Inorganic content *o Organic content* *- Attachment to tooth surfaces and implants*		
		Dental stain	*- Color and color perception* *- Classification of tooth discoloration:* *o Intrinsic discoloration* *o Extrinsic discoloration* *o Internalized discoloration* *- The mechanisms of tooth discoloration* *- Prevention* *.- Treatment approaches*	**3**	**12**
		Etiology of periodontal disease	*Risk factors for periodontal diseases:* *o Definitions of risk factors* *o Systemic risk factors:* *i- Modifiable risk factors* *ii- Non-modifiable risk factors* *Local predisposing factors*	**3**	13
		Etiology of periodontal disease	*- Molecular biology of host–microbe interactions* *o Microbe-associated molecular patterns* *o Toll-like receptors:* *i- Toll-like receptor-4–lipopolysaccharide recognition* *ii- Toll-like receptor-2–lipoprotein/lipoteichoic acid/peptidoglycan recognition* *iii- Role of toll-like receptors in periodontitis*	**3**	**14**
Mid year exam					
		Etiology of periodontal disease and risk factors	*- Smoking and Periodontal Disease* *o Effects of smoking on the prevalence and severity of periodontal diseases:* *i- Gingivitis* *ii- Periodontitis* *o Effects of smoking on the etiology and pathogenesis of periodontal*	**3**	16

			disease: *i- Microbiology*		
		Impact of periodontal infection on systemic health	*- Focal infection theory revisited* *- Subgingival environment as a reservoir for bacteria* *- Periodontal disease, coronary heart disease, and atherosclerosis:* *o Ischemic heart disease* *o Atherosclerosis* *- Periodontal disease and stroke* *- Periodontal disease and diabetes mellitus*	**3**	**17**
		Impact of periodontal infection on systemic health	*Periodontal disease and asthma* *Periodontal disease and pregnancy outcome* *- Periodontal disease and chronic obstructive pulmonary disease* *- Periodontal disease and acute respiratory infections*	**3**	**18**
		Periodontal indices	*Definition* *o Gingival index (Loe and Silness)* *o Plaque index (Silness and Loe)* *o Plaque index (O'leary)* *o Plaque index (Quigely Hein)* *o Probing pocket depth* *o Clinical attachment loss* *o Basic Periodontal Examination (BPE)* *o Modified Gingival Index*	**3**	**19**
		The periodontal pocket	Define dental impression materials types, uses and *Classification* *- Clinical features* *- Pathogenesis* *- Histopathology:* *o Bacterial invasion* *o Microtopography of the gingival wall* *o Periodontal pockets as healing lesions.*	**3**	**20**
		The periodontal pocket	*Periodontal disease activity* *- Pulp changes associated with periodontal pockets* *- Relationship of*	**3**	**21**

			attachment loss and bone loss to pocket depth *- Area between base of pocket and alveolar bone* *- Relationship of pocket to bone* *- Periodontal abscess* *- Lateral periodontal cyst*		
		Treatment plan guidelines	*risk factor control):* *o Self-performed supragingival biofilm control:* *i- Oral hygiene practices to control gingival inflammation* *ii- Behavioral change for oral hygiene improvement* *iii- Motivational interviewing and cognitive behavioral therapy* *o Adjunctive therapies for gingival inflammation* *o Professional supragingival dental biofilm control*	**3**	**22**
		Treatment plan guidelines	*Treatment plan guidelines* *- Phase 2 (cause-related therapy)* *o Subgingival instrumentation:* *Scaling* *Root planing* *o Removal of plaque-retentive factors*	**3**	23
		Treatment plan guidelines	*- Phase 3 (corrective/surgical phase)* *o Objectives of surgical therapy* *o Periodontal access surgery:* *i- Resective* *ii- Regenerative* *o Extraction of hopeless teeth*	**3**	**24**
		Treatment plan guidelines	*Phase 4 (maintenance therapy)* *o Clinical recommendations* *o Self-performed supragingival dental biofilm control* *o Adjunctive therapies for gingival inflammation* *o Professional*	**3**	25

			supragingival dental biofilm control		
		Plaque biofilm control for the periodontal patient	*- The toothbrush:* *o Toothbrush design* *- Powered toothbrushes* *- Dentifrices* *- Toothbrushing methods* *- Interdental cleaning aids:* *o Dental floss* *o Interdental brushes* *o Other interdental cleaning devices*	**3**	26
		Plaque biofilm control for the periodontal patient	*Plaque biofilm control for the periodontal patient*	**3**	**27**
		Periodontal instruments and sharpening	*- Types of periodontal instruments:* *i- Diagnostic instruments* *ii- Scaling, root planing, and curettage instruments* *• Plastic and Titanium Instruments for Implants* *iii- Cleansing and polishing instruments* *iv- Surgical instruments* *- Instrument stabilization:*	**3**	28
		Breath Malodor (Halitosis)	*- Definitions* *- Epidemiology* *- Classification* *- Etiology:* *o Intraoral Causes:* *i- Tongue and tongue coating* *ii- Periodontal infections* *iii- Dental disorders* *iv- Dry mouth* *o Extraoral Causes* *o Pseudo-halitosis or Halitophobia*	**3**	29
		Systemic anti-infective therapy for periodontal diseases	*Definitions* *- Common antibiotic regimens used to treat periodontal diseases* *- Tetracyclines:* *o Specific agents:* *i- Tetracycline* *ii- Minocycline* *iii- Doxycycline*	3	30

Course evaluation .

8% for the first and second semester exams	%30 Theoretical	Theoretical part: 65% Theoretical exams include essay questions and multiple

comprehensive 4% exam	annual quest	choices to measure the student's understanding of the scientific material and his ability to express his answer correctly.
daily exams during 3% the theoretical lecture		
15 % امتحان نصف السنة		
%35final exam		
Practice in clinics	10% Practical annual quest	For the practical part 35%
%25of the final practical exam is given to the auditors in the clinics		

13. Learning and teaching resources

	Required textbooks (methodology, if any)
1-Clinical Periodontology and Implant Dentistry, Seventh Edition, Niklaus P. Lang and Jan Lindhe, 2022 2-Newman and Carranza's Clinical Periodontology, Thirteen Edition, 2019	Main references (sources)
	Recommended supporting books and references (scientific journals, reports....)
	Electronic references, Internet sites

Fourth	**Educational level:**
dentist	**Specialization:**
Oral surgery	**Name of the course in Arabic:**
Oral surgery	**Name of the study subject in English:**
Preparing students at a high level of knowledge regarding oral surgery and learning about dental management of patients with chronic and infectious diseases, in addition To minor oral surgical interventions. And infections of the mouth, face and jaws.	**Objectives of the article:**

Acquire basic knowledge about oral surgery, dental management of patients with chronic and infectious diseases, basic knowledge about minor surgical interventions Dealing with infections of the mouth, face and jaws	**Material description:**
2	**Number of theoretical hours:**
2	**Number of practical hours:**
6	**number of units:**
غسان نازك الدعمي / محمد حسن عبد الشهيد	**Teacher's name in Arabic:**
Ghassan Nazik / Mohammad Hassan	**Teacher's name in English:**
مدرس دكتور	**The scientific title:**
	University email address:
	Mobile phone number: (WhatsApp)

المنهج المقرر / الجزء النظري:

Week	Syllabus
1	Intra oral incisions, flaps and suturing
2	Pyogenic infections of the soft tissues
3	Complications of exodontia
4	Inflammatory disease of the bone
5	Principles of management of impacted teeth
6	Oral and maxillofacial cysts
7	Management of patient receiving chemotherapy and radiotherapy
8	Dental pain
9	Cardiovascular diseases
10	Bleeding disorders
11	Blood dyscrasias
12	Thyroid disease
13	Adrenal insufficiency
14	Diabetes mellitus
15	Pulmonary diseases
16	Arthritis
17	AIDS.
18	Pregnancy
19	C.N.S. disease
20	Complications of exodontia
21	Inflammatory disease of the bone
22	Liver disease
23	Renal disease
24	Allergy
25	Management of heamorrhage
26	Management of heamorrhage
27	Management of heamorrhage
28	Radicular surgery
29	Radicular surgery
30	Radicular surgery

المنهج المقرر / الجزء العملي:

Week	Syllabus
1	**Extraction of simple cases -**
2	**Extraction of simple cases -**
3	**Extraction of simple cases -**
4	**Extraction of simple cases -**
5	**Extraction of simple cases -**
6	**Extraction of simple cases -**
7	**Extraction of simple cases -**
8	**Extraction of simple cases -**
9	**Extraction of simple cases -**
10	**Extraction of simple cases -**
11	**Extraction of simple cases -**
12	**Extraction of simple cases -**
13	**Extraction of simple cases -**
14	**Extraction of simple cases -**
15	**Extraction of simple cases -**

1. Contemporary oral and maxillofacial surgery 5th edition 2008.
2. An outline of oral surgery 2000.

1. Dental management of medically compromised patients 7th edition 2007.
2. Medical problems in dentistry 6th edition 2010

Fourth	Educational level:
Dentistry	Specialization:
General Medicine	Name of the course in Arabic:
General medicine	Name of the study subject in English:
It gives information to the student about some general and common internal and surgical diseases and conditions, how they relate to dental medicine and surgery, and how the dentist will deal with these conditions in the hospital or private clinic if they are present with the patient or he is exposed to them during dental treatment. Teeth.	Objectives of the article:
- Educational institution: Ministry of Higher Education - Al-Kafeel University. -University Department: College of Dentistry. -Course name: General Medicine. -Forms of attendance: lectures and practical exercises. -Semester/Year: Annual.	Material description:
30 ساعة	Number of theoretical hours:
90 ساعة	Number of practical hours:
8 وحدات	number of units:
عبدالكريم عبدالله محمود	Teacher's name in Arabic:
Abdul Kareem Abdulla Mahmoud	Teacher's name in English:
استاذ دكتور	The scientific title:
	University email address:
	Mobile phone number: (WhatsApp)

المنهج المقرر / الجزء النظري:

Week	Syllabus
1	Systemic hypertension:
2	Ischemic heart disease:
3	Hematemesis, definition and causes. Hemoptysis, definition and causes.
4	Rheumatic fever:
5	Infective endocarditis:
6	Diseases of the heart valves:
7	Hemorrhagic diseases:
8	Anemias:
9	Hemolytic anemia:
10	Leukemia:
11	Esophagitis:
12	Acute abdomen:
13	Diabetes mellitus:
14	**TUBERCULOSIS**
15	Symptoms of alimentary tract diseases:
16	Bronchial asthma:

Sources:

Main references:

[1] current diagnosis & treatment in family medicine 2020

[2] Barton's family medicine / board review.2020

[3] Textbook of family medicine – 9th edition /2015 .

references

[1] fundamental of family medicine –the family medicine clerkship 2020

[2] Tylor's manual of family medicine , 4th edition

1. Course name
Basic principles of performing surgical operations
2. Course code
3. Semester/year
the fourth year
4. The date this description was prepared
2023/22/8
5. Available attendance forms
My presence
6. Number of study hours (total)/number of units (total)
One theoretical hour per week

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1. Course objectives

*Giving students a brief overview of the practical foundations for practicing surgery general. *Preparing students to deal with the most important complications resulting from surgical operations and how to care for the surgical patient. *Educating students about the ethics and professional aspects of performing surgica operations in general. *Encouraging students to conduct scientific research on topics of surgical treatme for various diseases and innovations in those treatments	Objectives of the course

.1Teaching and learning strategies

*Careful and practical selection of topics that will be presented to students. *Following the practical approach in preparing lectures and focusing on the practical asp of general surgery topics. *Follow the method of stimulating constructive interaction of students during lectures a ensure the participation of the largest number of them in the lecture. *Ensure that the lecture includes the largest number of practical examples derived from lecturer's own experiences. *Preparing simplified and multiple assessments for students in the given subject to determine the extent of their comprehension of the information. *Directing students towards the proper and useful use of Internet sites that can help them understand the materials given to them.	**The strategy**

.1

method Evaluation method	method Evaluation method	Name of the unit or topic	Required learning outcomes	hours	weekا

		Stress Response 1	**** Definitions of the main terms (Metabolism, Homeostasis and Trauma "Stress").*** **** An overview of the stress response.*** **** A Brief of the mediators of stress response.***	واحدة	1
		Stress Response 2	**** Illustration of the phases of stress response (continue) ..*** **** Explanation of the mediators of the stress response.*** **** Demonstration of the factors that may cause overstimulation of the stress response.***	=	2
		Wound Healing 1	***1) What is a wound?*** ***2) What are the various classifications of wound.*** ***3) Features of each type of wound.***	=	3
		Wound Healing 2	***1) The basics of wound healing process.*** ***2) The different mechanisms of wound healing.*** ***3) The factors that may affect the healing process.***	=	4
		SSI 1	***1) Define Surgical***	=	5

			Site Infection (SSI). ***2) Demonstrate what is "Invasive" procedure with examples.*** ***3) Explain the pathophysiology of SSI.***		
		SSI 2	***1) Clarify the means to diagnose SSI.*** ***2) Recognize some unusual types of SSI.*** ***3) Identify some prophylactic measures to avoid SSI.***	=	6
		Hemorrhage 1	***1) A definition of hemorrhage.*** ***2) How to classify types of hemorrhage.*** ***3) How to diagnose hemorrhage.***	=	7
		Hemorrhage 2	***I) The principles of management of a patient having a hemorrhage:*** ***II) What is "Damage Control Resuscitation".*** ***III) The main methods of controlling a bleeding point.***	=	8
		Shock 1	***1) Define the shock*** ***2) Demonstrate the pathophysiology of shock*** ***3) Classify the types***	=	9

			of shock.		
		Shock 2	***1) Highlight the management of Septic shock.*** ***2) Demonstrate the features of other types of shock.***	=	10
		Blood Transfusion 1	***1) What is meant by blood transfusion.*** ***2) What are the types and characteristics of the main blood groups.*** ***3) What types of blood products can be given.***	=	11
		Blood transfusion 2	***1) Indications of transfusion.*** ***2) Precautions to transfusion.*** ***3) Complications of Transfusion.***	=	12
		Water Balance 1	***1) Define Water Balance.*** ***2) Mechanisms of balance*** ***3) Sources of Water.***	=	13
		Water Balance 2	***1) Causes of imbalance.*** ***2) Features of dehydration.*** ***3) Features of toxicity.***	=	14
		Electrolyte Balance1	***1) Electrolyte Homeostasis.*** ***2) Main Body electrolytes.***	=	15

			3) Hyponatremia. ***4) Hypernatremia.***		
		Electrolyte Balance2	***1) Hypokalemia.*** ***2) Hyperkalemia.*** ***3) Hypocalcaemia.***	=	16
		Pre-op Prep 1	***1) Pre-op Investigations*** ***2) Patient Consent.*** ***3) Anesthetic issues***	=	17
		Pre-op Prep 2	***1) RFT*** ***2) LVT*** ***3) ICU Consideration***	=	18
		TPN 1	***1) Define TPN*** ***2) Types of TPN*** ***3) Indications of TPN***	=	19
		TPN 2	***1) Cost considerations.*** ***2) Methods of administration*** ***3) Complications.***	=	20
		Post-op Management 1	***1) Types of surgical operations*** ***2) Main post-op complications*** ***3) Assessment***	=	21
		Post-op Management 2	***1) In-recovery management*** ***2) ICU-management.*** ***3) Ward management***	=	22
		Head Injury 1	***1) Causes of HI***	=	23

			2) Classification of HI ***3) Anatomical considerations***		
		Head Injury 2	***1) Investigations of HI*** ***2) Admission criteria.*** ***3) Treatment***	=	24
		Anesthesia & Pain 1	***1) Pre-op Check*** ***2) Choice of anaesthesia*** ***3) Preparations***	=	25
		Anesthesia & Pain 2	***1) Technical challenges.*** ***2) Induction of Anesth.*** ***3) Maintenance of Aneth.*** ***4) Recovery of Anesth.***	=	26
		Ethics and surgery	***1) Consent*** ***2) Patients Autonomy*** ***3) Patient Information*** ***4) Diversity***	=	27
		Patient Safety	***1) Medical education*** ***2) At home safety.*** ***3) Infection control Protocols.*** ***4) Ease of Access contact to medical workers.***	=	28
		Day Case Surgery	***1) Classification of***	=	29

			Surgical operations. ***2) Criteria of choice.*** ***3) Work Atmosphere*** ***4) Turn-on policy.***		
		Robotic Surgery	***1) Definition of Robotic Surgery*** ***2) Indications of Robotic Surgery*** ***3) Complications of Robotic Surgery.***	=	30

.2Course evaluation

	Annual endeavor: 30/100, which includes 15 marks for the mid-year exam and 7.5 marks for each of the first and second semesters, with 5 marks for the semester exam and 2.5 marks for daily exams, attendance, interactive activity, and seminars.
	Final exam: 70/100, which includes the practical exam (slides) worth 20 marks and the theoretical exam worth 50 marks.

2. 1. Learning and teaching resources

Baily and Love Short Practice of Surgery	Required textbooks (methodology, if any)
	Main references (sources)
	Recommended supporting books and references (scientific journals, reports....)
	Electronic references, Internet sites

1. Course name
Oral and maxillofacial surgery
2. Course code
3. Semester/year
Fifth
4. The date this description was prepared
2023-9-10
5. Available attendance forms
My presence
6. Number of study hours (total)/number of units (total)
Look at it for one hour
Clinical two hours
الاسم: الاستاذ الدكتور حيدر دخيل المعلا الأيميل : hayder.almualla@alkafeel.edu.iq

1. 1. Course objectives

Teaching students the sciences of oral and maxillofacial surge and dental implants. Training the student on the basics of performing surgical operations. Informing the student about the latest developments in the field oral surgery. Introducing the student to the tools, devices and materials used surgical operations. Encouraging and motivating students to conduct graduation research in oral surgery and dental implants. Teaching students to respect the patient and keep his personal secrets, as these are requirements for treatment. We seek to build a student's medical-scientific persona coupled with high moral standards and self-denial.	Objectives of the study subject

2. 1. Teaching and learning strategies

Weekly in-person lectures in PowerPoint format and displaying pictures of patients' medi conditions
And surgical treatment methods so that the student can review them whenever he wants.
Spreading the spirit of competition among students in the form of conducting a quick exam presenting a set of questions and allowing students to do so
Share the answer.
Directing students to familiarize themselves with the content of lectures by giving th scientific sources in oral and facial surgery
Jaws and dental implants.
Assigning the student to prepare a section of the lecture and delivering it to the students in presence of the professor to motivate them.
Creating a website for students that publishes video clips of lectures and taking quick exa or
Showing surgical operations, listening to and answering students' questions.

Course structure .3 .3

Evaluation	Method	Name of	Required learning outcome	hours	week

		Orofacial pain	Classification; somatic and neuropathic □□Diagnosis □□Somatic pain; odontogenic pain, oral mucous membrane disorders, temporomandibular joint disorders, muscle disorders □□Neuropathic pain; trigeminal neuralgia, glossopharyngeal neuralgia, atypical odontalgia, postherpetic neuralgia □□Vascular pain; giant cell arteritis and migraine.	1	1
		Preliminary management of atients with faci fractures	Etiology of maxillofacial trauma □□Primary survey and advanced trauma life support (ATLS)Secondary survey.	1	2
		Fractures of the mandible	□□Classification □□Clinical features □□Imaging □□Treatment; closed treatment, methods of immobilization, period of treatment, open reduction and internal fixation (ORIF) □□Teeth in the fracture line. □□Complications	1	3
		Fractures of the mandible	Mandibular fractures that require special consideration: □□Pediatric fractures, □□Fractures of edentulous mandible □□Condylar fractures. □□Comminuted fractures	1	4
		Fractures of the middle third of facial skeleton	□□Classification, clinical presentation imaging and treatment of: Le Fort fractures. Zygomatic complex fractures	1	5
		Fractures of the middle third of facial skeleton	□□Classification, clinical presentation imaging and treatment of: □□Orbital floor fractures □□Nasal bone fractures □□Complications of fractures of middle third of facial skeleton	1	6
		Dentoalveolar and soft tissue	□□Factors affecting dentoalveolar injuries□ □□Classification□	1	7

		injuries	□□Clinical presentation□ □□Radiographic evaluation□ □□Treatment□ □□Splinting techniques□ □□Complications. □□Soft tissue injures; classification, treatment and soft tissue injuries of special significance.□		
		Preprosthetic surgery	□□Definition. □□Preoperative assessment □□Clinical examination and radiographic evaluation. □□Bony recontouring procedures: alveoloplasty, maxillary tuberosity reduction, exostoses and excessive undercuts, mylohyoid ridge and genial tubercle reduction and torus removal.	1	8
		Preprosthetic surgery.	□□Soft tissue procedures: unsupported hypermobile tissue on the alveolar ridge, inflammatory fibrous hyperplasia (epulis fissuratum), labial frenectomy, lingual frenectomy, ridge extension (vestibuloplasty)□ □□Immediate dentures□ □□Alveolar ridge preservation. □□Correction of abnormal ridge relationships□	1	9
		Potentially malignant disorders of the oral mucosa	□□Classification and terminology □□Risk factors, □□Diagnostic methods and diagnostic aids Potentially malignant disorders: leukoplakia, erythroplakia, palatal changes associated with reverse smoking, oral submucous fibrosis, actinic cheilitis and lichen planus.	1	10
		Odontogenic diseases of the maxillary sinus	□□Overview of the maxillary sinus□ □□Clinical and radiographic examination□ □□Non-odontogenic infections of the maxillary sinus□ □□Odontogenic infections of the maxillary sinus□ □□Oroantral communications and fistulae□ □□Treatment□	1	11

		Benign cystic lesions of the oral cavity	□□Definition□ □□Classification of cysts (according to the WHO classification 2017)□ □□Odontogenic cysts of inflammatory origin□ □□Odontogenic and non-odontogenic developmental cysts□ □□Clinical features□ □□Radiographic features□ □□Surgical management of cystic lesions□ □□Enucleation: indications, advantages and disadvantages□ □□Adjunctive treatment□ □□Peripheral ostectomy and curettage□ □□Cryotherapy□ □□Chemical treatment□ □□Topical 5-fluorouracil □□Marsupialization□	1	12
		Odontogenic tumors	□□Definition □□Classification of Odontogenic Tumors (according to the WHO classification of odontogenic cysts, tumors and maxillofacial bone tumors 2017) □□Epithelial odontogenic tumors □□Mixed epithelial and mesenchymal odontogenic tumors □□Mesenchymal odontogenic tumors. □□Clinical features □□Radiographic features □□Ameloblastoma □□Ameloblastoma □□Unicystic ameloblastoma □□Peripheral/extraosseous) □□Odontoma □□Compound type □□Complex type □□Surgical treatment of odontogenic tumors □□Enucleation and/or curettage, adjunctive treatment □□Resection	1	13
		Non-odontogenic tumors and fibro-	□□Classification (according to the WHO classification of odontogenic and maxillofacial bone tumors 4th edition 2017)	1	14

		osseous lesions of the jaw	□□Giant cell lesions □□Central giant cell granuloma □□Brown tumor of hyperparathyroidism □Cherubism□ □□Aneurysmal bone cyst □□Fibro-osseous lesions □□Fibrous dysplasia □□Ossifying fibroma □□Cemento-osseous dysplasia □□Osteoma □□Osteosarcoma		
		Oral cancer	□□Natural history of squamous cell carcinoma□ □□Etiology□ □□Site distribution□ □□Clinical presentation□ □□Staging (using the 8th edition of the cancer staging manual) and grading□ □□Radiographic assessment□ □□Surgical treatment, access to the oral cavity□	1	15
		Oral cancer	□□Management of the neck□ □□Postoperative follow up□ □□Radiotherapy, radiotherapy techniques and fractionation□ □□Chemotherapy, agents and scheduling□ □□Palliative treatment and terminal care□	1	16
		Implant Treatment: Advanced Concepts	□□Immediate post-extraction implants □□Immediate loading versus delayed loading □□Bone grafts and graft substitutes. □□Sinus lift procedure	1	17
		Implant Treatment: Advanced Concepts	□ Inferior alveolar nerve lateralization □ Narrow and short implants □ Image-guided implantology □ Computer-Assisted Implant Surgery □ Special implants (zygomatic and extra-oral implants)	1	18
		Salivary gland diseases	□ Overview of major and minor salivary glands □ Clinical assessment □ Imaging	1	19

			□ Classification: □ Developmental □ Inflammatory □ Obstructive and traumatic lesion □ Functional □ Autoimmune conditions □ Neoplastic lesions □ Inflammatory conditions (sialadenitis): Viral sialadenitis and Bacterial sialadenitis , □ Obstructive conditions□ □ Functional conditions: Xerostomia, Sialorrhea□ □ Conditions of possible traumatic origin: Mucocele, Ranula□		
		Salivary gland diseases	□ Autoimmune conditions: Sjögren syndrome, Immunoglobulin G4-related salivary gland disease□ □ Other salivary gland conditions: Salivary duct cyst (Mucus retention cyst), Necrotizing sialometaplasia, Sarcoidosis, Sialadenosis (sialosis), Radioactive iodine sialadenitis□ □ Neoplasms: benign and malignant (according to 4th edition of the WHO classification 2017).□ □ Principles and complications of salivary gland surgery□	1	20
		Temporomandibular joint (TMJ) disorders	□ TMJ anatomy □ Evaluation and Radiographic examination of the TMJ □ Disorders of the TMJ: □ Structural (internal derangement) □ Wilkes classification of internal derangement □ Functional (myofascial pain) □ Management: non-surgical, minimally invasive (arthocentesis and arthroscopy) and surgery	1	21
		Temporomandibular joint (TMJ) disorders	□ Hypermobility of TMJ □ Hypomobility of TMJ: □ Classification of TMJ ankyloses □ Treatment	1	22

		Orthognathic surgery	□ Definition □ Treatment objectives □ Clinical examination (facial evaluation in frontal and profile views) □ Radiographic evaluation (Lateral cephalometric analysis) □ Pre-surgical Orthodontic Considerations □ Treatment Timing	1	23
		Orthognathic surgery	Mock surgery and fabrication of splints □ Surgical treatment phase (mandibular excess, mandibular deficiency, maxillary excess, Maxillary and Midface Deficiency) □ Distraction osteogenesis	1	24
		Cleft lip and palate	Epidemiology □ Etiology □ Classification □ Prenatal diagnosis □ Clinical manifestations □ Management; presurgical orthopedics, primary operative management, treatment planning and timing, surgical procedures of cleft lip	1	25
		Cleft lip and palate	Management; Surgical procedures of cleft palate, complications □ Secondary operative management; alveolar bone grafting, goals and timing, procedure, source of bone graft, complications.	1	26
		Laser and Cryosurgery in oral and maxillofacial surgery	□ Laser □ Classification of laser according to power: low- energy and high-energy □ The advantages of laser □ Hazards and precautions required when using laser □ Cryosurgery □ Cryosurgery techniques □ Uses of cryosurgery □ The advantages of using cryosurgery □ The disadvantages of using cryosurgery	1	27
		Vascular anomalies	□ Classification (according to ISSVA 2018) □□Hemangioma	1	28

			□ Clinical presentation and staging □ Investigations □ Treatment □□In the proliferative phase □□In the involutive phase □□Residual lesions □□Vascular malformations □ Classification according to the vessel type and whether high or low flow □ Clinical presentation with emphasis on the intraosseous venous malformation □ Investigations □ Treatment		
		Principles of reconstructive surgery of defects of the jaws	□ Goals of reconstruction □ Biologic basis of bone reconstruction □ Types of grafts (autogenous, allogeneic, xenogeneic) □ Osteoinduction, Osteoconduction and Osteogenesis □ Assessment of patient in need for reconstruction □ Goals of mandibular reconstruction □ Defect types and localizations □ Mandibular reconstruction □ Surgical principles of maxillofacial bone grafting procedures	1	29
		Principles of reconstructive surgery of defects of the jaws	□ Maxillary reconstruction □ Goals of maxillary reconstructive surgery □ Computer-assisted surgical planning □ Flaps for maxillofacial reconstruction □ Definition □ Classifications □ Examples of flaps in maxilla-mandibular reconstruction (palatal flap, tongue flap, buccal fat pad flap, Facial Artery Musculomucosal Flap, Temporalis muscle flap, Submental Flap, Vascularized Iliac Crest Grafts	1	30
4. Course evaluation					

Theoretical part: 65 percent Theoretical exams include multiple tests, questions in the form of MCQ, and essay questions to evaluate the extent of the student's understanding and acceptance of the scientific course and the extent of his ability to pass the evaluation exam in a typical manner.			
Annual quest	Annual quest		
40	40		
	The first semester and the second half of the year	The first semester and the second half of the year	
	15	25	
		10 theoretical	15 practical
1. Learning and teaching resources			
	Required textbooks (methodology, if any)		
Textbook of oral & maxillofacial surgery. Maxillofacial Surgery Booth.	Main references (sources)		
	Recommended supporting books and references (scientific journals, reports....)		
	Electronic references, Internet sites		

1. Course name					
Periodontal diseases and surgery					
2. Course code					
3. Semester/year					
Annual					
4. The date this description was prepared					
2024/30/1					
5. Available attendance forms					
Attending lectures and clinics					
6. Number of study hours (total)/number of units (total)					
30 theoretical hours					
60 working hours					
الاسم: م.ماهر بلاش محمد الآيميل : maher.b@alkafeel.edu.iq					
. Course objectives					
Teaching students about diseases of the tissues surrounding teeth, their types, causes, factors affecting their occurrence, a methods of treating them.			**Objectives of the study subject**		
1. 1. Teaching and learning strategies					
Theoretical: Using interactive lectures, PowerPoint, and drawing on the boarc Practical: Teaching the student through educational clinics on patients in presence of specialist doctors supervising and discussion sessions on medi cases.				The strategy	
Course structure					
method Evaluation	method Evaluation	Name of the unit or topic	Required learning outcomes	**hours**	**week**

method	method				
	lecture	**Examinationof periodontal disease**	**Define the examination, clinical examination inclu periodontalindecies ,radiographical examinat , risk factour**	**2**	**1**
	lecture	**classification of gingivitis**	**Define the gingivitis ,type of gingivitis , sign and symtoms**	**1**	**3**
	lecture	**declassificat ofperiodonti**	**Define ,types of classification , types of periodontal disease ,sign and symptoms , stages of disease and grad**	**2**	**4**
	lecture	**Periodontics and other fields**	**Periodontal diseas related to orthodontic treatment Periodontal diseas related to operativ as filling or crown Periodontal diseas related to prosthodontics**	**2**	**6**
	lecture	**Mobility of the teeth**	**Types of mobility , causes , primary and secondary of mobility ,assessment of mobility , treatment of mobility according situation**	**1**	**8**
	lecture	**Traumatic occlusion**	**Define of trauma , acute and chronic, oral manifestation of trauma , primary and secondary occlusal trauma and treatmeant for each one**	**1**	**9**
	lecture	**Gingival crevicular fluid**	**Define GCF, how can formation , the composition of GCF. How can collected , the methods of analysis of**	**1**	**10**

			it . **The uses of periodontal markers**		
	lecture	**Surgical treatment gingivactomy**	**Types of incisions . the surgical instrument , define gingivactomy Indication , contra indication , benefits and disadvantages.** **The steps of gingivactomy**	**2**	**11**
	lecture	**Types of surgery treatment flap**	**Types of periodontal surgerys , define of flap , types , classification o f flap and uses according this classification**	**2**	**13**
	lecture	**Gummy smile and mucogingival surgery**	**Define , examination and diagnosis , the causes and treatment .** **Define Mucogingival surgery, types includes frenotomy frenoctomy**	**2**	**15**
	lecture	**Healing in the periodontal treatment Guided tissue regeneration**	**Define repair , new attachment ,re attachment , long junctional .regeneration . phases of healing development .factors effecting healing .** **GTR types , and indication .**	**2**	**17**
	lecture	**Furcation involvement**	**Toth anatomy and some terms .** **Classification ,**	**2**	**19**

			assessment of furcation . clinical and radiographical diagnosis . Treatmend according situations		
	lecture	**Endo perio lesions**	**Define EPL , the communication of pulp to periodontal area . Types of causes of EPL . treatmeant of each one**	**1**	**21**
	lecture	**Laser and periodontal treatment**	**What is laser , how can formation , the machine of laser . types of lase Advantges Periodontal uses**	**1**	**22**
	lecture	**Implant Dentistry**	**Define of implant Components Machro and Microstructures . Indication Contraindication Examination clinically and radiographically General prosuders Of implant inciertion**	**2**	**21**
	lecture	**Peri implant mucositis**	**Anatomy of peri implant tissue ,causes of mucositis , diagnosis , clinical features and treatment**	**1**	**23**
	lecture	**Preimplantitis**	**Define of peri implantitis ,causes of peri implantitis ,**	**1**	**24**

			diagnosis , clinical features and treatment		
	محاضرة	**Periodontal treatment of compromised patients**	**Treatment patients with cardiac disease ,angina ,MI. patient with asthma**	**1**	**25**
	محاضرة	**Periodontal treatment of compromised patients**	**Treatment patients with diabtic disease. Eplipsy**	**1**	**26**
	محاضرة	**Halitosis**	**Types of bad odor , the sources of odor Causes , treatment**	**1**	**27**
	محاضرة	**Dentin Hypersensitivity**	**Define , clinical features , the types and source of hypersensitivity . the periodontal treatment**	**1**	**28**
	محاضرة	**Periodontal imunity**	**Innate immunity and includes saliva , GCF, gingival epithelium ,cell microphage and lemphocite . Acquired immunity includes types of Tcell , B cell and types of antibody**	**2**	**29**

2. 1. Course evaluation

Theoretical: 1% attendance, 1% classes, 3% quarterly (per semester 5%)

Learning and teaching resources .3 .3

Required textbooks (methodology, if any)	
Main references (sources)	1) carrnaz'a clinical periodontology clinical periodontology and implant dentistry [3] periodontal medicine
Recommended supporting books and references (scientific journals, reports....)	fundamental of periodontal trumentation [2] color atlas of dental dicine_periodontology [3] practical periodontal plastic surgery

Course Description Form

14. Course Name:
Dental materials
15. Course Code:
DNK2-DM
16. Semester / Year:
second year
17. Description Preparation Date:
10-9-2023
18. Available Attendance Forms:
On campus
19. Number of Credit Hours (Total) / Number of Units (Total)
Theory 30 hours in 30 weeks Practical: 60 hours in 30 weeks Number of units: 4
20. Course administrator's name (mention all, if more than one name)
Name: Azal Hadi Al-Masoody Email: azal.almasoody@alkafeel.edu.iq
21. Course Objectives

Course Objectives	• Providing students with basic scientific knowledge about dental materials. • Developing students' skills in analyzing and evaluating various dental materials. • Training students to apply dental materials in a practical way. • Encouraging students to pursue scientific research in the field of dental materials.

22. Teaching and Learning Strategies	
Strategy	• Applying education based on individual differences in teaching dental materials: The teacher can modify the educational content or teaching methods to meet the needs of different students. For example, a teacher can provide more support to students who are having difficulty understanding certain material. • Game-based learning: where students learn by participating in fun activities or competitions. • Create a website containing educational content about dental materials, such as videos, presentations, and articles. Students can access this content anytime, anywhere.

23. Course Structure

Week	Hour	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	1. Define the term "dental materials" and explain their importance in dentistry. 2. Describe the basic properties of dental materials and their clinical significance.	Introduction to Dental materials	Lectures	Weekly exams in the form of choices,

					seminars and discussion
2	1	*Define and explain the key mechanical properties of dental materials relevant to clinical dentistry. *Understand the concepts of stress, strain, modulus of elasticity, and yield strength in the context of dental materials. *Identify different types of mechanical behavior, such as elastic, plastic, and brittle deformation. *Explain the significance of fatigue resistance and wear resistance in dental materials.	Mechanical properties of Dental Materials		
3	1	*Learn to distinguish key physical characteristics of different material types (metals, ceramics, polymers, etc.). *Choose the right material for the job based on its physical strengths and weaknesses.	Physical properties o Dental materials		
4	1	*Identify the type of different dental materials used in restorative dentistry	Restorative dental materials		
5	1	* Understand the history and role of dental amalgam in dentistry. *Discuss the evolution of amalgam as a restorative material and its historical significance. *Analyze the advantages and disadvantages of using amalgam compared to other restorative options.	Dental amalgam part 1		
6	1	*Grasp the composition and properties of dental amalgam. *Identify the key components of amalgam and explain their contribution to its physical and mechanical characteristics. *Describe the manipulation and setting process of amalgam and its impact on clinical performance.	Dental amalgam part 2		
7	1	Understand the composition and types of dental composites.	Dental composite part 1		
8	1	Different classifications of dental composites	Dental composite part 2		
9	1	Learn about the technologies in dental composites and types of light-curing units with clinical tips	New resin technologies		
10	1	*Identify the components of bonding materials. *Understand the importance of proper technique for optimal bonding and long-lasting results.	Enamel and dentin bonding		
11	1	Analyze the key properties of each cement – setting time, strength, adhesion, and biocompatibility. Differentiate between chemical and mechanical bonding mechanisms. Master cement selection for different clinical scenarios – from simple fillings to crowns.	Dental cements (zinc phosphate, Zinc oxide eugenol, zinc polycarboxylate, GIC)		

12	1	Analyze the key properties of each cement – setting time, strength, adhesion, and biocompatibility. Differentiate between chemical and mechanical bonding mechanisms.	Dental cements part 2 (RMGIC, giomers, compomers, resin cements)		
13	1	Analyze the key properties of each cement – setting time, strength, adhesion, and biocompatibility. Differentiate between chemical and mechanical bonding mechanisms.	Cements for vital pulp therapy (Dycal, Theracal, MTA, Biodentine)		
14	2	Compare and contrast the key properties of common temporary filling materials like zinc oxide eugenol, zinc phosphate cement, self-cure composites, and unfilled acrylic resins. Discuss the advantages and disadvantages of each material in terms of ease of placement, handling, longevity, and patient comfort. Understand the influence of material properties on clinical performance and selection.	Temporary restorative materials		
15			Mid year exam		
16	1	Define dental ceramic types, uses and properties.	Dental ceramic		
17	1	Define dental gypsum materials types, uses and properties.	Dental gypsum products		
18	1	Define dental wax materials types, uses and properties.	Dental wax		
19	1	Define dental investment materials types, uses and properties.	Dental investment materials		
20	1	Types uses and properties of Dental impression materials.	Dental impression materials (introduction ,rigid impression materials)		
21	1	Define dental impression materials types, uses and properties.	Dental impression materials (hydrocolloid impression materials)		
22	1	Define dental impression materials types, uses and properties.	Dental impression materials (elastomeric impression materials)		
23	1	Define the polymers types, uses and properties. And applications in dentistry	Polymers		
24	1	Grasp the Denture base materials types, uses and properties.	Denture base materials		
25	1	Comprehend Denture liners, conditioners and relining materials types, uses and properties.	Denture liners, conditioners and relining materials		
26	1	Understand different types of Metals in dentistry, uses and properties.	Metals in dentistry		
27	1	Define Finishing and polishing materials types, uses and properties.	Finishing and polishing materials		
28	1	Define Materials used in	Materials in		

			endodontics types, uses and properties.	endodontics		
29	1		Define Materials in preventive dentistry types, uses and properties.	Materials in preventive dentistry		
30	1		Understand dental Implant and maxillofacial materials types, uses and properties.	Implant and maxillofacial materials		

24. 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. First semester 12.5 (daily exams + semester exam + seminar + attendance) Mid-year 15 Second semester 12.5 Final exam: 35 theoretical 25 practical

25. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	• Phillips' Science of Dental Materials, Kenneth Anusavice. • Craig's Restorative Dental Materials, Ronald L. Sakaguchi. • Introduction to Dental Materials, Richard Van Noort. • Dental Materials at a Glance, J. Anthony von Fraunhofer
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

26. Course Name:
Prosthodontics
27. Course Code:
28. Semester / Year:
2nd year
29. Description Preparation Date:
10-9-2023
30. Available Attendance Forms:
Traditional Learning
31. Number of Credit Hours (Total) / Number of Units (Total)
Theory:1h/wk. (total 30h) Laboratory 2h/wk. (total 60h)

32. Course administrator's name

Name: A. Lect. Ali Abbass Hussain
Email: ali.abbass@alkafeel.edu.iq

33. Course Objectives

Course Objectives	• Providing students with basic scientific knowledge abo prosthetic dentistry. • Developing student's skills in laboratory work. • Training students to apply prosthetic material in practical way. • Encouraging students to pursue scientific research in t field of the prosthodontics.

34. Teaching and Learning Strategies

Strategy	• Applying education based on individual differences in teachi the dental industry subject: The teacher can modify t educational content or teaching methods to meet the needs different students. For example, a teacher can provide mo support to students who are having difficulty understandi certain material. • Brainstorming-based learning: by asking questions that can discussed and concluded • Create a website containing educational content about the den industry, such as videos, presentations, and articles. Students c access this content anytime, anywhere.

35. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	• Complete denture. • Objective of complete denture. • General consideration in complete denture construction . • Complete denture component parts .	Introduction	Powerpoint , Word	Quiz Semester exam
2	3	Anatomical landmarks Maxillary arch anatomical landmarks Supporting structures Limiting structures Relief areas	Anatomical landmarks		
3	3	Anatomical landmarks Mandibular arch anatomical landmarks Supporting structures	Anatomical landmarks		

		Limiting structures Relief areas			
4	**3**	Impression tray - Definition Parts of the impression tray Types of tray Stock tray – Definition Types of stock trays Factors effect in selection of sto tray	Complete Denture Impression		
5	**3**	Special tray Advantages of special tray Materials used for construction of special tray Types of special tray Techniques or methods for construction of special tray Criteria for special tray construction	Complete Denture Impression		
6	**3**	Dental impression - Definition Complete denture impression - Definition Objective of impression making Primary impression - Definition Materials used for making primary impression Primary cast - Definition Production of study cast Secondary impression - Definition Master cast- Definition Materials used for final impression Technique used for making final impression Boxing an impression and making the casts Advantages of boxing Common fault i impression mak	Complete Denture Impression		
7	**3**	Record base - Definition Requirements of record base Types of materi used in construc of record base	Record Base		

8	**3**	Occlusion rims - Definition Requirements of occlusion rim Materials used in construction of occlusion rim Measurements of maxillary occlusion rim Measurements of mandibular occlusion rim Uses of occlusion rim Occlusal plane Fox – bite	Occlusion Rims		
9	**3**	Temporomandibular joint (TMJ) – Definition Ligaments Muscles	Anatomy And Physiolog Of Temporomandibular Joint		
10	**3**	Mandibular axes and mandibular movements Knowledge of mandibular movements Mandibular movements	Anatomy And Physiolog Of Temporomandibular Joint		
11	**3**	Types of jaw relation Vertical jaw relation Rest position Inter – occlusal distance Importance of vertical dimension Increased vertical dimension Decreased verti dimension	Maxillomandibular relat		
12	**3**	Method of recording rest vertical dimension Method of recording occlusal vertical dimension Pre – extraction records Methods withou pre – extraction record.	Methods Of Recording Vertical Relation		
13	**3**	Centric jaw relation Importance of centric jaw relation Methods of recording jaw relation Factors that complicates centric jaw relation Methods of recording eccen jaw relation.	Horizontal Jaw Relation		
14	**3**	Dental articulator Definition Functions of articulator	Dental Articulators (Classification & Digita computerized articulato		

		Requirements of articulator Types of articul	programming(		
15	**3**		Mid year exam		
16	**3**	Face- bow Definition Parts of face – bow Types of face – bow Important of the face – bow	Face – Bow		
17	**3**	Mounting Definition Preparation of articulator Preparation of the casts and mounting the upper cast on CL II articulator Mounting the lower cast Errors occurred during mountin	Mounting		
18	**3**	Selection of anterior teeth The factors of shade selection Size selection a. Length b. Width Form selection Materials of anterior teeth Difference between acrylic and porcelain teeth.	Selection Of Artificial Te		
19	**3**	Shade Bucco-lingual width Mesio-distal length Occluso-gingival height Occlusal form Advantages of casp form teeth Advantages of r cusp form teeth	Selection Of Posterior Te		
20	**3**	Guideline of artificial teeth arrangement Arrangement of anterior teeth Arrangement of upper anterior te	Arrangement Of Artifici Anterior Teeth		
21	**3**	Curve of Spee Compensatory curves Arrangement of lower posterior teeth Arrangement of upper posterior teeth Common errors arrangement of teeth	Arrangement Of Posteri Teeth		
22	**3**	Waxing Definition Requirements of waxing the polish	Waxing And Carving		

		surfaces The procedure of waxing Establishing the posterior palatal seal area Procedure for carving of posterior palatal seal area Advantages of posterior palatal seal Esthetic consideration ir complete dentu			
23	**3**	Occlusion Occlusion of complete denture Centric occlusion Centric relation	Complete Denture Occlusion		
24	**3**	Eccentric occlusion Concepts of complete denture occlusion Try-in appointn	Complete Denture Occlusion		
25	**3**	Flasking of the denture Flasking technic	Processing Of The Dent (Flasking)		
26	**3**	Causes of errors in occlusion Selective grinding Correction of occlusal errors Disadvantages of intra –oral correction Advantages of extra – oral correction Rules for selective grinding.	Occlusal Correction		
27	**3**	Procedure of finishing Grinding and cutting instruments Polishing of complete denture Principles of polishing Procedures of polishing	Finishing And Polishing Complete Denture		
28	**3**	Types of material used in repair Causes of denture fracture Types of repair Laboratory procedure for repairing fractu denture base	Repair Of Complete Den		
29	**3**	Replacement of broken or missing tooth Replacement of missing or lost part Requirement of repair	Repair Of Complete Den		
30	**3**	Indication for relining or rebasing	Relining And Rebasing		

		Relining Contraindications of relining and rebasing The impression techniques for relining and rebasing.			

36. Course Evaluation

Theoretical part: 65% Theoretical exams include essay questions and mult choices to measure the student's understanding of scientific material and his ability to express his ans correctly.	30%	6 % 1st & 2nd Semester exam
		2 % Presence and interaction
		7 % Quizs
		15 % Mid. Year Exam
	35% Final Exam	
Practical part 35%	10%	4% Semester exam
		2 % Presence and interaction
		4% Seminar
	25% Final Exam: in the form of slides contair questions of a practical nature and mock questi	

37. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	• Prosthodontic Treatment f Edentulous Patients: Comple Dentures and Implant-Support Prostheses. George A. Zarb • Textbook of Prosthodontics. Deep Nallaswamy
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:
Prosthodontics
2. Course Code:
3. Semester / Year:
3rd year
4. Description Preparation Date:
10-9-2023
5. Available Attendance Forms:
Traditional Learning
6. Number of Credit Hours (Total) / Number of Units (Total)
Theory:1h/wk. (total 30h) Laboratory 2h/wk. (total 60h)
7. Course administrator's name
Name: A. prof. Dr. Mustafa ahmed Email: a mustafa.ahmed@alkafeel.edu.iq
8. Course Objectives

Course Objectives	• Providing students with basic scientific knowledge abo prosthetic dentistry. • Developing student's skills in laboratory work. • Training students to apply prosthetic material in practical way. • Encouraging students to pursue scientific research in t field of the prosthodontics.
9. Teaching and Learning Strategies	
Strategy	• Applying education based on individual differences in teachi the dental industry subject: The teacher can modify t educational content or teaching methods to meet the needs different students. For example, a teacher can provide mo support to students who are having difficulty understandi certain material. • Brainstorming-based learning: by asking questions that can discussed and concluded • Create a website containing educational content about the den industry, such as videos, presentations, and articles. Students c access this content anytime, anywhere.

10. Course Structure (Theory)					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	1	Introduction Removable Part Dentures	Prosthodontics	Powerpoint Word	Quiz Semester exam
2	1	Terminology Definitions	Prosthodontics		
3	1	Classification Partially Edentulous Arche	Prosthodontics		
4	1	Surveying	Prosthodontics		
5	1	Component parts Removable Part Dentures	Prosthodontics		
6	1	Maxillary Ma Connector	Prosthodontics		
7	1	Mandibular Ma Connector	Prosthodontics		
8	1	Minor Connector	Prosthodontics		
9	1	Rest and rest seat	Prosthodontics		
10	1	Direct Retainers,	Prosthodontics		
11	1	Extra Coro Direct Retainers	Prosthodontics		
12	1	Extra Coro Direct Retaine (Continue)	Prosthodontics		
13	1	Internal Attachments	Prosthodontics		
14	1	Indirect retainers	Prosthodontics		
15	1	Indirect retaine (Continue)	Prosthodontics		
16	1	Block out & Relief	Prosthodontics		
17	1	Duplication Refractory C Construction	Prosthodontics		
18	1	Wax Pattern	Prosthodontics		
19	1	Casting, & Finishi	Prosthodontics		
20	1	Denture Bases Removable Part Dentures	Prosthodontics		

21	1	Stress Breaker	Prosthodontics		
22	1	Biomechanics Removable Part Dentures	Prosthodontics		
23	1	Biomechanics Removable Part Dentures (Continue)	Prosthodontics		
24	1	Principles Removable Part Denture Design	Prosthodontics		
25	1	Phases Removable Part Denture Treatme	Prosthodontics		
26	1	Acrylic Removal Partial Dentures	Prosthodontics		
27	1	Acrylic Removal Partial Dentur (Continue)	Prosthodontics		
28	1	Jaw Relation Removable Part Dentures	Prosthodontics		
29	1	Repairs a Additions Removable Part Dentures	Prosthodontics		
30	1	Special Impressi Techniques Removable Part Denture (alter cast techniques...etc.)	Prosthodontics		

11. Course Evaluation

Theoretical part: 65% Theoretical exams include essay questions and mult choices to measure the student's understanding of scientific material and his ability to express his ans correctly.	30%	6 % 1st & 2nd Semester exam
		2 % Presence and interaction
		7 % Quizs
		15 % Mid. Year Exam
	35% Final Exam	
Practical part 35%	10%	4% Semester exam

		2 % Presence and interaction
		4% Seminar
	25% Final Exam: in the form of slides contain questions of a practical nature and m questions	

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	- Concise Prosthodontics/ SECOI EDITION -[Mc Crackens Removable Part Prosthodontic / Twelfth ed't'on -Prosthodontic Treatment Edentulous Patients: Compl Dentures and Implant-Support Prostheses. George A. Zarb -Textbook of Prosthodontics. Deep Nallaswamy
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:
Conservative dentistry
2. Course Code:
3. Semester / Year:
5th year
4. Description Preparation Date:
10-9-2023
5. Available Attendance Forms:
Traditional Learning
6. Number of Credit Hours (Total) / Number of Units (Total)

Theory:1h/wk. (total 30h)
7. Course administrator's name
Name: A. prof. Sarmad M. Hamozi Email: Dr.sarmadh@alkafeel.edu.iq
Name: Assist. Lect. Ghadeer Shakir Shabaa Email: Ghadeer.shakir@alkafeel.edu.iq
8. Course Objectives

Course Objectives	• Educating students and training them to work den restorations. • Root canal treatment (teaching and training).
9. Teaching and Learning Strategies	
Strategy	• Applying education based on individual differences in teachi the dental industry subject: The teacher can modify the educatio content or teaching methods to meet the needs of differe students. For example, a teacher can provide more support students who are having difficulty understanding certain materia • Brainstorming-based learning: by asking questions that can discussed and concluded • Create a website containing educational content about the den industry, such as videos, presentations, and articles. Students c access this content anytime, anywhere.

10. Course Structure (Theory)

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	definition of fixed partial denture, Effect of Tooth Loss, Comparism with R.P	Terminology,	Powerpoint & Word	Quiz & Semester exam
2	1	including Basic Bri Design	Types of Fixed Bridge		
3	1	Retainers	Components of Fi Bridge		
4	1	Pontics Connectors.	Components of Fi Bridge		
5	1	_Abutment Tooth(evaluation and selection) _Crown/Root Ratio. _Splinting of teeth. _Patient Occlusal Status.	Clinical Consideration Bridge Construction		

		_General Factors.			
6	**1**	(Post. Til Abutments, S Length, Pier Ab Arch Curvature)	Clinical Situati affecting Bridge Desig		
7	**1**		Resin bonded bridge		
8	**1**	a. Intra-oral Examination. b. X-Rays Examination. c. Diagnostic C Examination.	Diagnosis And Treatm Plan.		
9	**1**		Gingival retraction impression(techniques) impression disinfectior		
10	**1**	(Principles of occlusion occlusal plane, Anterior guidance) Bite Registeration, Articulation	provisional Restoratio Oclussion and Aestheti		
11	**1**	(Principles of occlusion occlusal plane, Anterior guidance) Bite Registeration, Articulation	provisional Restoratio Oclussion and Aestheti		
12	**1**	(Colour dimensions Hue,Chroma,and Val	Try-in and Sh Selection		
13	**3**	(Techniques).	Final Cementation F.P.Ds.		
14	**1**		Failure in Fi Prosthodontics.		
15	**2**		Mid year exam		
16	**1**	(Current Ceramic).	Porcelain in Fi Prosthodontics		
17		General and c examination.	Endodontic diagnosis		
18	**1**	Define of PRT Type of anesthesia	Pain control Endodontics		
19	**1**	Define dental X-Ray Type of X-Ray.	Endodontic radiography		
20	**1**	How to estimate working length.	Working len Determination		
21	**1**		Microbiology		
22	**1**		Microbiology		
23	**1**	Manuwal Intraca instruments	Intracanal instruments		

24	**1**	Rotary Intraca instruments	Intracanal instruments		
25	**1**	Type of the sealrs.	Obturation of the r canal system		
26	**1**	Type of the RC fill material.	Obturation of the r canal system		
27	**1**	Management Endodontic Emerge cases	Endodontic Emerge Treatment		
28	**1**	Define of the ferrul Intracoronal restoration Exstracoronal restoration	Restoration Endodontically Trea Teeth		
29	**1**	Define and type Endodontic-Periodontal Relations	Endodontic-Periodonta Relations		
30	1	Define To discoloration and t of bleaching.	Tooth discoloration bleaching.		

11. Course Evaluation

Theoretical part: 60% Theoretical exams include essay questions and mult choices to measure the student's understanding of scientific material and his ability to express his ans correctly.\	25%	8 % 1st & 2nd Semester exam
		2 % Presence and interaction
		15 % Mid. Year Exam
	35% Final Exam	
Practical part 40%	15%	11% clinical work
		2% Activity
		2% Seminar
	25% Final Exam: in the form of slides contain questions of a practical nature and m questions & clinical work.	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	• Phillips' Science of Dental Materia Kenneth Anusavice. • Endodontics, Ingle • cotamporary in fixed prosthesis.
Recommended books and references (scientific	• Handbook of Endodontics by Benc

journals, reports…)	
Electronic References, Websites	

Course Description

Course Name .38	
Crown and bridge	
Course CodeDNK3-FP .39	
Semester / Year .40	
2024-2023	
The history of preparation of this description .41	
2024-2-1	
Attendance Forms.42	
Came	
Number of Credit Hours (Total) / Number of Units (Total).43	
hours	
Course Administrator Name: Ass.Prof. Dr. Monadle Raouf Hadi .44 monadle.almansoor@alkafeel.edu.iq	
Course Objectives .45	
Teaching students and training them on how to make fixed dental prostheses.	**Course Objectives**
46. Teaching and Learning Strategies .47	
• Application of education based on individual differences in the teaching of fixed fixtures or crowns and bridges The teacher can modify the educational content or teaching methods to meet the needs of students within different time periods and according to recent scientific developments. • Play-based learning: Students learn by participating in fun activities or competitions. • Create a website with educational content about crowns and bridges • work, such as videos, presentations, and articles. Students can access • this content anytime, from anywhere.	**Strategy**

Course Structure .48

Evaluation method	Learning method	Unit or subject name	Required Learning	Hours	The week

			Outcomes		
Daily exams, seminars and a semester exam	Theoretical lectures Presentation using borpoint and practical Training students and making fillings and Root fillings in educational clinics on the auditors by good specialized supervisory staff	Definitions-Types of crowns. -Purposes of crown construction. -Steps in crown construction. -Components of bridge	Introduction to Fixed Prosthodontics.	**1**	**1**
=	=	Biomechanical principles of tooth preparation Preservation of sound tooth *Retention and *resistance form. *Marginal integrity	Principles of tooth preparation	**1**	**2**
=	=	Indications, contra-indications, advantages, disadvantages, steps of preparation	Full metal crown:	**1**	**3**
=	=	Indications, contra-indications, advantages, disadvantages, steps of preparation	Full metal crown (continued):	**1**	**4**
=	=	Indications, contra-indications, advantages, disadvantages, steps of preparation	Porcelain fused to metal crown:	**1**	**5**
=]	=	Indications, contra-indications, advantages, disadvantages, steps of preparation	Porcelain fused to metal crown (continued):	**1**	**6**
=	=	Indications, contraindications, advantages, disadvantages, steps of preparation	Complete ceramic crown (Porcelain Jacket Crown:	**1**	**7**
=	=	Indications, contraindications, advantages, disadvantages, steps of preparation	Complete ceramic crown (Porcelain Jacket Crown(continued):	**1**	8
=	=	Indications, contraindications, advantages, disadvantages, steps of preparation	Partial veneer crown (three-quarter crown):	**1**	9
=	=	Indications, contraindications, advantages, disadvantages, steps of preparation	Partial veneer crown (three-quarter crown):	**1**	**10**
=	=	Indications, contra-indications, factors to be considered in the assessment of a tooth for post	Post crown:	**1**	**11**
=	=	Indications, contra-indications, factors to be considered in the assessment of a tooth for post	Post crown:	**1**	**12**
=	=	-Objectives of taking impression. -Requirements. of	Impression for crown and bridge	**3**	13

		an acceptable impression. - Impression materials. - Impression techniques	work:		
=	=	-Objectives of taking impression. -Requirements. of an acceptable impression. - Impression materials. - Impression techniques	Impression for crown and bridge work (continued):	**1**	**14**
=	=	Definition, objectives, types(prefabricated, custom-made, and laboratory-made)	Provisional restoration:	**2**	**15**
=	=	Definition, objectives, types(prefabricated, custom-made, and laboratory-made)	Provisional restoration (continued)	**1**	16
=	=	Advantages of working cast, definition of die, types of die material, techniques of producing die	Working cast and dies:	**2**	**17**
=	=	Advantages of working cast, definition of die, types of die material, techniques of producing die	Working cast and dies (continued):	**1**	**18**
=	=	Types, techniques and spruing	Waxing.	**1**	**19**
=	=	Materials, techniques and wax elimination	Investing.	**1**	**20**
=	=	Alloys, instruments, machines and techniques	Casting.	**1**	**21**
=	=	Steps, materials, instruments and techniques used	Finishing of the casting:	**1**	**22**
=	=	Steps, instruments and clinical considerations	Clinical try-in	**1**	23
=	=	Types of cements used for cementation of crown restoration.	Cementation:	**1**	**24**

Course Evaluation .49

%8 first and second semester exam	% 25 Theoretical Annual Quest	Theoretical part: 60% Theoretical exams include various questions, including essays, including multiple choices to measure the student's understanding of the scientific material and the extent to which he is able to express his answer correctly. It may be in the form of quarterly or daily short or oral tests
attendance and %2 interaction during the academic year		
Mid-Year Exam %15		
Final Exam %35		
Practical %11	% 15	Practical part 40%

Requierment	Practical Annual Quest	
attendance and %2 interaction		
In-Laboratory %2 Seminar		
%25 of the final practical exam in the form of slides containing questions of a practical nature and mock questions		

1. Learning and Teaching Resources

.2

	Required textbooks (methodology, if any)
Contemporary Fixed Prosthodontics	Main references (sources)
Sturdivant's art and science of operative dentistry	Recommended books and references (scientific journals, reports...)
Health internetwork.net	Electronic References, Websites

Course Description Form

1. Course Name:
Conservative dentistry
2. Course Code:
3. Semester / Year:
4th year
4. Description Preparation Date:
10-9-2023
5. Available Attendance Forms:
Traditional Learning
6. Number of Credit Hours (Total) / Number of Units (Total)

Theory:1h/wk. (total 30h)

7. Course administrator's name

Name: A. Lect. Mustafa Fares shubbar
Email: mustafashubbar@alkafeel.edu.iq

Name: Assist. Lect. Ghadeer Shakir Shabaa
Email: Ghadeer.shakir@alkafeel.edu.iq

8. Course Objectives

Course Objectives	• Educating students and training them to work den restorations. • Root canal treatment (teaching and training).

9. Teaching and Learning Strategies

Strategy	• Applying education based on individual differences in teachi the dental industry subject: The teacher can modify t educational content or teaching methods to meet the needs different students. For example, a teacher can provide mo support to students who are having difficulty understandi certain material. • Brainstorming-based learning: by asking questions that can discussed and concluded • Create a website containing educational content about the den industry, such as videos, presentations, and articles. Students c access this content anytime, anywhere.

10. Course Structure (Theory)

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	definition of enamel and its type	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Opera Dentistry.	Powerpoint & Word	Quiz & Semester exam
2	1	definition of enamel and its type	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Opera Dentistry.		
3	1	definition of dentin and its type	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry		
4	1	definition of dentin and its type	Biologic Considerations of Dentin structure & its		

			Clinical Significance in Operative Dentistry		
5	1	_ Diagnosis & Treatm Planning	Patient Evaluation ,		
6	1	(Diagnosis & treatm strategies)	Caries Management		
7	1	(carious and non cari lesions)	Cervical Lesions		
8	1		Restorative Dentistry Pulpal Health		
9	1		Management of D Seated Caries		
10	1		Inflammatory Condition the Pulp		
11	1		Treatment of Deep Seated Caries Simplified anatomical modeling.		
12	1		Fluoride – Releas Materials		
13	3	Inlays and Onlays (materials ,techniques) CAD/CAM Technology	Indirect aesthetic adhesive restorations .		
14	1	(Composite)	Direct tooth-colc restorations		
15	2		Mid year exam		
16	1		Dental Laser		
17	2		Application of Laser Conservative Dentistry		
18	1		Indirect tooth-colc restorations		
19	1	Laboratory-processed composite inlays and onl	Techniques of posterior composite Inlay/Onlay restoration system		
20	1		Ceramic veneers, inl and onlays, clin procedures.		
21	1		Ceramic veneers, inl and onlays, clin procedures.		
22	1		CAD/CAM techniques		
23	1		Topics Covered		
24	1		Objective of endodo treatment		
25	1		Basic Phases of Treatm		
26	3		Pulp pathologies		
27	3		Classification of periap diseases		
28	3		Access Oper Preparation		
29	3		Endodontic Instrument		
30	3		Roentgenography Endodontics and R		

			canal preparation		

11. Course Evaluation

Theoretical part: 60% Theoretical exams include essay questions and mult choices to measure the student's understanding of scientific material and his ability to express his ans correctly.\	25%	8 % 1st & 2nd Semester exam
		2 % Presence and interaction
		15 % Mid. Year Exam
	35% Final Exam	
Practical part 40%	15%	11% clinical work
		2% Activity
		2% Seminar
	25% Final Exam: in the form of slides contain questions of a practical nature and m questions & clinical work.	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	• Endodontics, Ingle • Art & Science of operative dentistr • Pathways of the pulp by Seltzer.
Recommended books and references (scientific journals, reports…)	• Handbook of Endodontics by Benc
Electronic References, Websites	

Course Description Form

1. Course Name:
Prosthodontics
2. Course Code:
3. Semester / Year:
4th year
4. Description Preparation Date:
10-9-2023

5. Available Attendance Forms:

Traditional Learning

6. Number of Credit Hours (Total) / Number of Units (Total)

Theory:1h/wk. (total 30h)

7. Course administrator's name

Name: A. prof. Dr. Mustafa ahmed
Email: a mustafa.ahmed@alkafeel.edu.iq

8. Course Objectives

Course Objectives	• Teaching students how to make removable prosthesis a sequence of steps. • Developing students' skills in dealing with references a showing the personality of the respected doctor. • Encouraging students to study and make removal prosthesis of all kinds.

9. Teaching and Learning Strategies

Strategy	• Applying education based on individual differences in teachi the dental industry subject: The teacher can modify t educational content or teaching methods to meet the needs different students. For example, a teacher can provide mo support to students who are having difficulty understandi certain material. • Brainstorming-based learning: by asking questions that can discussed and concluded • Create a website containing educational content about the den industry, such as videos, presentations, and articles. Students c access this content anytime, anywhere.

10. Course Structure (Theory)

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	osteology	Prosthodontics	Powerpoint & Word	Quiz Semester exam
2	1	**myology**	Prosthodontics		
3	1	**Diagnosis and treatment plan for RPD**	Prosthodontics		
4	1	**To be continued Diagn and treatment**	Prosthodontics		
5	1	**Mouth preparation abutment tooth preparat**	Prosthodontics		
6	1	**To be continued**	Prosthodontics		

7	1	Impression materials techniques for R PD	Prosthodontics		
8	1	To be continued	Prosthodontics		
9	1	Support in FEE RPD	Prosthodontics		
10	1	techniques altered cast metal check	Prosthodontics		
11	1	Occlusion in rpd	Prosthodontics		
12	1	Jaw relation in rpd	Prosthodontics		
13	1	Prep prosthetic surgery	Prosthodontics		
14	1	To be continued	Prosthodontics		
15	1	Diagnosis and treatm plane CD	Prosthodontics		
16	1	To be continued	Prosthodontics		
17	1	Impression in CD	Prosthodontics		
18	1	To be continued	Prosthodontics		
19	1	TMJ and mandibu movement	Prosthodontics		
20	1	Jaw relation-vertical	Prosthodontics		
21	1	To be continued	Prosthodontics		
22	1	Jaw relation-horizontal	Prosthodontics		
23	1	To be continued	Prosthodontics		
24	1	Try in stage in CD	Prosthodontics		
25	1	To be continued	Prosthodontics		
26	1	Insertion of CD	Prosthodontics		
27	1	Adjustments of CD	Prosthodontics		
28	1	relining and rebasing in RPD	Prosthodontics		
29	1	Repair of fractured RPD	Prosthodontics		
30	1	Esthetic denture materia	Prosthodontics		

11. Course Evaluation

Theoretical part: 60% Theoretical exams include essay questions and mult choices to measure the student's understanding of scientific material and his ability to express his ans correctly.	25%	6 % 1st & 2nd Semester exam
		2 % Presence and interaction
		2 % Quizs
		15 % Mid. Year Exam
	35% Final Exam	
Practical part 40%	15%	10% clinical work
		5 % Activity
	25% Final Exam: in the form of slides contain	

	questions of a practical nature and m questions & clinical work.
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	- Concise Prosthodontics/ SECO EDITION - Mc Crackens Removable Part Prosthodontic / Twelfth ed't'on -Woelfel's Dental Anatomy: Relevance to Dentistry by Rickne C. Scheid
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course vocabulary development form

Conservative and prosthetic branch	**Name of the scientific branch**
First stage	**Educational level**
Dentistry	**specialty**
Dental anatomy	**Name of the course in Arabic**
Dental anatomy	**Name of the course in English**
60 hours	**Number of theoretical hours**
90 hours	**Number of practical hours**
	Units number
علي فلاح حسن	**teacher's name in**

مصطفى فارس مشكور	**Arabic**
Ali Falah Hasan Mustafa Faris Mashkoor	**teacher's name in English**
Assistance lecturer	**Academic Title**
Alirfeash1994@gmail.com mustafashubbar@alkafeel.edu.iq	University email address
07711889795	**Phone number**

The current course in effect

Week	Syllabus
1	Introduction Nomenclature Heterodent Diphyodont The Deciduous Teeth The Permanent Teeth Anterior and Posterior Teeth The Jaw
2	Introduction to Dental Anatomy & Carving Instruments
3	Numbering systems
4	Practical demonstration of Carving a Cube (1cm*1cm*1cm)
5	-Introduction to Anatomical landmarks on Teeth models. -Carving of a cube.
6	Description &Carving of the Labial Aspect of P. Max. Right Central Incisor.
7	Description &Carving of the Mesial aspect of P. Max. Right Central Incisor
8	Description, Carving & Finishing of the Incisal Aspect of Permanent Max. Right Central Incisor
9	Practical Training of Carving of P. Max. Right Central Incisor
10	Practical Exam. Of Carving of P. Max. Right Central Incisor
11	Description &Carving of the Labial & Mesial Aspects of P. Max. Right Canine.
12	Description ,Carving & Finishing of the Incisal Aspect of P. Max. Right Canine
13	Practical Training of Carving of P. Max. Right Canine.
14	Practical Exam. of Carving of P. Max. Right Canine.
15	Description &Carving of the Buccal & Mesial Aspects of P.Max. Right 1st Premolar.
16	Description, Carving & Finishing of the Occlusal Aspect of P.Max. Right 1st Premolar.
17	Practical Exam. Of Carving of P. Max. Right 1st Premolar
18	Description &Carving of the Buccal & Mesial Aspects of P.Mand. Right 1st Premolar.
19	Description, Carving & Finishing of the Occlusal Aspect of P.Mand. Right 1st Premolar.

20	Practical Training of Carving of P. Mand. Right 1st Premolar
21	Practical Exam. Of Carving of P. Mand. Right 1st Premolar
22	Description &Carving of the Buccal & Mesial Aspects of P. Max.Right 1st Molar
23	Description, Carving & Finishing of the Occlusal Aspect of P. Max. Right 1st Molar.
24	Practical Training of Carving of P. Max. Right 1st molar.
25	Practical Exam. of Carving of P. Max. Right 1st molar.
26	Description &Carving of the Buccal & Mesial Aspects of P. Mand. Right 1 st Molar
27	Description, Carving & Finishing of the Occlusal aspect of P.Mand 1 st Molar/Practical Training of Carving p.Mand 1st molar.
28	Practical Examination of Carving of P. Mand. Right 1st molar
29	Final Oral & Practical Examination of Tooth carving
30	Final Oral & Practical Examination of Tooth carving

Proposed course

Week	Syllabus
1	Introduction Nomenclature Heterodent Diphyodont The Deciduous Teeth The Permanent Teeth Anterior and Posterior Teeth The Jaw
2	Introduction to Dental Anatomy & Carving Instruments
3	Numbering systems
4	Practical demonstration of Carving a Cube (1cm*1cm*1cm)
5	-Introduction to Anatomical landmarks on Teeth models. -Carving of a cube.
6	Description &Carving of the Labial Aspect of P. Max. Right Central Incisor.
7	Description &Carving of the Mesial aspect of P. Max. Right Central Incisor
8	Description, Carving & Finishing of the Incisal Aspect of Permanent Max. Right Central Incisor
9	Practical Training of Carving of P. Max. Right Central Incisor
10	Practical Exam. Of Carving of P. Max. Right Central Incisor
11	Description &Carving of the Labial & Mesial Aspects of P. Max. Right Canine.
12	Description ,Carving & Finishing of the Incisal Aspect of P. Max. Right Canine
13	Practical Training of Carving of P. Max. Right Canine.
14	Practical Exam. of Carving of P. Max. Right Canine.

15	Description &Carving of the Buccal & Mesial Aspects of P.Max. Right 1st Premolar.
16	Description, Carving & Finishing of the Occlusal Aspect of P.Max. Right 1st Premolar.
17	Practical Exam. Of Carving of P. Max. Right 1st Premolar
18	Description &Carving of the Buccal & Mesial Aspects of P.Mand. Right 1st Premolar.
19	Description, Carving & Finishing of the Occlusal Aspect of P.Mand. Right 1st Premolar.
20	Practical Training of Carving of P. Mand. Right 1st Premolar
21	Practical Exam. Of Carving of P. Mand. Right 1st Premolar
22	Description &Carving of the Buccal & Mesial Aspects of P. Max.Right 1st Molar
23	Description, Carving & Finishing of the Occlusal Aspect of P. Max. Right 1st Molar.
24	Practical Training of Carving of P. Max. Right 1st molar.
25	Practical Exam. of Carving of P. Max. Right 1st molar.
26	Description &Carving of the Buccal & Mesial Aspects of P. Mand. Right 1 st Molar
27	Description, Carving & Finishing of the Occlusal aspect of P.Mand 1 st Molar/Practical Training of Carving p.Mand 1st molar.
28	Practical Examination of Carving of P. Mand. Right 1st molar
29	Final Oral & Practical Examination of Tooth carving
30	Final Oral & Practical Examination of Tooth carving

Course Description Form

1. Course Name:
Medical Physics
2. Course Code:
Half yearly
3. Semester / Year:
2023–2024
4. Description Preparation Date:
5. Available Attendance Forms:
Full attendance
6. Number of Credit Hours (Total) / Number of Units (Total)
60 hours – 4 units

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

Name: Dr. Saleh Hassoun
Email: salehhasson71@gmail.com

8. Course Objectives

Course Objectives	**• Identify the general and specific concepts of medical physics** **• Detecting and distinguishing rays, especially (X−rays and gamma), their effect on humans, and how to deal with them in medical institutions.** **• Learn about medical devices and how they work** **• Linking physical phenomena to medicine.**

9. Teaching and Learning Strategies

Strategy	**Research and thinking − forming groups for class discussions − using references and modern learning methods − contributing by students to following up on scientific developments in the field of medical physics − applying theoretical concepts in the laboratory.**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical + 2 practical	Terminology Modeling Accuracy Precision	Terminology Modeling Accuracy Precision	-Lectures -discussion -Laboratory reports	Exam
2	2 theoretical + 2 practical	Terminology Modeling Accuracy Precision	Terminology Modeling Accuracy Precision	-Lectures -discussion -Laboratory reports	Exam
3	2 theoretical + 2 practical	Force on and in body	Force on and in body	-Lectures -discussion -Laboratory reports	Exam

4	2 theoretical + 2 practical	Force on and in body	Force on and in body	-Lectures -discussion -Laboratory reports	Exam
5	2 theoretical + 2 practical	Physics of the skeleton	Physics of the skeleton	-Lectures -discussion -Laboratory reports	Exam
6	2 theoretical + 2 practical	Physics of the skeleton	Physics of the skeleton	-Lectures -discussion -Laboratory reports	Exam
7	2 theoretical + 2 practical	Physics of the skeleton	Physics of the skeleton	-Lectures -discussion -Laboratory reports	Exam
8	Quize				
9-10	2 theoretical + 2 practical	Understanding Factors operating on oral flora Bacterial staining	Understanding Factors operating on oral flora Bacterial staining	-Lectures -discussion -Laboratory reports	Exam
11-12	2 theoretical + 2 practical	Electricity within the body	Electricity within the body	-Lectures -discussion -Laboratory reports	Exam
13-14	2 theoretical + 2 practical	Sound in medicine	Sound in medicine	-Lectures -discussion -Laboratory reports	Exam
15	Quize				
16-17	2 theoretical + 2 practical	Ultrasonic	Ultrasonic	-Lectures -discussion -Laboratory reports	Exam
18-19	2 theoretical + 2 practical	Understanding The Concept of Immunity Antimicrobial	Understanding The Concept of Immunity Antimicrobial	-Lectures -discussion -Laboratory reports	Exam

		therapy	therapy		
20-21	2 theoretical + 2 practical	Light in medicine: Light nature, (Reflection, Refraction)	Light in medicine: Light nature, (Reflection, Refraction)	-Lectures -discussion -Laboratory reports	Exam
22-23	2 theoretical + 2 practical	Laser in medicine	Laser in medicine	-Lectures -discussion -Laboratory reports	Exam
24	Quize				
25-26	2 theoretical + 2 practical	Physics of diagnostic X-ray	Physics of diagnostic X-ray	-Lectures -discussion -Laboratory reports	Exam
27-28	2 theoretical + 2 practical	Understanding The Corynebacteria Corynebacterium	Understanding The Corynebacteria Corynebacterium	-Lectures -discussion -Laboratory reports	Exam
29-30	2 theoretical + 2 practical	Physics of nuclear medicine	Physics of nuclear medicine	-Lectures -discussion -Laboratory reports	Exam

Course Evaluation

The annual endeavor is 40% (theoretical = 30 and practical = 10) and the final exam is 60% (theoretical = 35 and practical = 25)

Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	– Health–Physics–by–Herman–Cember (4th edition) – Health Physics and Radiation Science
Recommended books and references (scien journals, reports…)	
Electronic References, Websites	https://www.freebookcentre.net/Physics/Medical–Physics–Books.html

	https://journals.lww.com/health-physics/pages/default.aspx

Course Description Form

50. Course Name:	
Computer	
51. Course Code:	
Half yearly	
52. Semester / Year:	
2023-2024	
53. Description Preparation Date:	
54.Available Attendance Forms:	
Full attendance	
55.Number of Credit Hours (Total) / Number of Units (Total)	
60 hours – 4 units	
56. Course administrator's name (mention all, if more than one name)	
Name: Asst.Lec. Amneen Naji Fadhel Email: amneen.naji@alkafeel.edu.iq	
57. Course Objectives	
Course Objectives	• **how to use computers and utilize programs in their work as dentists, they also use the Internet and e-mail.** • **create an interactive environment between the computer and user (student, teacher, etc.).**
58. Teaching and Learning Strategies	
Strategy	**Interactive lectures.** **Group discussions.** **Practical lessons in the laboratory.** **Case studies and reports.** **Using modern educational technologies**

59. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical + 2 practical	Turn on computer and shut down, desktop	Introduction about Computer, Hardware, Software, Computer structure.	a Power point lecture/practical application	short exam
2	2 theoretical + 2 practical	Operating System	Operating System, Number of system	a Power point lecture /practical application	short exam
3	2 theoretical + 2 practical	File & Folder Operat System, create file, delete file,	High level programming language,	a Power point lecture /practical application	short exam
4	2 theoretical + 2 practical	Operating System, control panel	Rom and RAM	a Power point lecture /practical application	short exam
5	2 theoretical + 2 practical	control panel, desktop background	Type of monitor	a Power point lecture /practical application	short exam
6	2 theoretical + 2 practical	control panel, date and time, taskbar	Type of computer	a Power point lecture /practical application	short exam
7	2 theoretical + 2 practical	DOS, apply some command	Introduction about MS - DOS	a Power point lecture /practical application	short exam
8	2 theoretical + 2 practical	DOS, Internet comma Practical Application	DOS, Internet command Practical Application	a Power point lecture /practical application	short exam

9	2 theoretical + 2 practical	DOS, External command. Practical Application	DOS, External command. Practical Application	a Power point lecture /practical application	short exam
10	2 theoretical + 2 practical	Practical Application	Introduction about Microsoft word.	a Power point lecture /practical application	short exam
11	2 theoretical + 2 practical	Practical Application	Microsoft word, nev save, save as, option font, paragraph	a Power point lecture /practical application	short exam
12	2 theoretical + 2 practical	Practical Application	Microsoft word, insert, table, picture , shape	a Power point lecture /practical application	short exam
13	2 theoretical + 2 practical	Practical Application	Microsoft word, sma art, header and footer, page number	a Power point lecture /practical application	short exam
14	2 theoretical + 2 practical	Practical Application	Microsoft word, border, section breaks, print	a Power point lecture /practical application	short exam
15	Mid Exam				
16	2 theoretical + 2 practical	Introduction about Microsoft power point	Introduction about Microsoft power point	a Power point lecture /practical application	short exam
17	2 theoretical + 2 practical	Practical Application	power point, insert slide, format background, insert text box, picture	a Power point lecture /practical application	short exam
18	2 theoretical + 2 practical	Practical Application	power point, animations	a Power point lecture /practical application	short exam
19	2 theoretical + 2 practical	Practical Application	power point, transition	a Power point lecture /practical application	short exam

20	2 theoretical + 2 practical	Practical Application	power point, types of show	a Power point lecture /practical application	short exam
21	2 theoretical + 2 practical	Introduction about Microsoft excel	Introduction about Microsoft excel	a Power point lecture /practical application	short exam
22	2 theoretical + 2 practical	Practical Application	Microsoft excel, file home and other lists	a Power point lecture /practical application	short exam
23	2 theoretical + 2 practical	Practical Application	Microsoft excel, Format the cells, insert row and column	a Power point lecture /practical application	short exam
24	2 theoretical + 2 practical	Practical Application	Microsoft excel, functions	a Power point lecture /practical application	short exam
25	2 theoretical + 2 practical	Practical Application	Microsoft excel, chart	a Power point lecture /practical application	short exam
26	2 theoretical + 2 practical	Introduction about internet and e-mail	Introduction about internet and e-mail	a Power point lecture /practical application	short exam
27	2 theoretical + 2 practical	Practical Application	Internet, types of connection, internet application	a Power point lecture /practical application	short exam
28	2 theoretical + 2 practical	Practical Application	Internet, browsers	a Power point lecture /practical application	short exam
29	2 theoretical + 2 practical	Practical Application	Internet, e-mail, create new e-mail, send message	a Power point lecture /practical application	short exam

30	2 theoretical + 2 practical	Practical Application	E-government	a Power point lecture /practical application	short exam

Course Evaluation				
Term test1+2	**Laboratory1+2**	**Quizzes**	**Projects**	**Final (theory +practical)**
10+10=20	**5+5=10**	**5**	**5**	**25+35=60**

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

Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Computer Fundamentals
Recommended books and references (scien journals, reports...)	
Electronic References, Websites	www.google.com

Course Description Form

61. Course Name:
General Pathology
62. Course Code:
Half yearly
63. Semester / Year:
2023-2024
64. Description Preparation Date:
65.Available Attendance Forms:
Full attendance
66.Number of Credit Hours (Total) / Number of Units (Total)
60 hours – 4 units
67. Course administrator's name (mention all, if more than one name)
Name: Liwaa Husayn Mahdi, Ahmad Hatif Al-amin

Email: Liwaa.Alkulabi@uokufa.edu.iq

68. Course Objectives

Course Objectives	• **Understanding general pathology in dentistry.** • **Identify the basics of diseases and their mechanisms.** • **Identify the basic concepts of disease mechanisms**

69. Teaching and Learning Strategies

Strategy	**Interactive lectures.** **Group discussions.** **Practical lessons in the laboratory.** **Case studies and reports.** **Using modern educational technologies**

70. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical + 2 practical	Understand Pathology Lab. Histotechniques	Introduction to Pathology Lab. Histotechniques	a Power point lecture/practical application	short exam
2	2 theoretical + 2 practical	Understanding Cellular Injury and death	Cellular Injury and death	a Power point lecture /practical application	short exam
3	2 theoretical + 2 practical	Understanding Cellular adaptation	Cellular adaptations	a Power point lecture /practical application	short exam
4	2 theoretical + 2 practical	Understanding Intracellular accumulation	Intracellular accumulation	a Power point lecture /practical application	short exam

5	2 theoretical + 2 practical	Understanding Pathologic calcification	Pathologic calcification	a Power point lecture /practical application	short exam
6	2 theoretical + 2 practical	Understanding Inflammation / Acute type	Inflammation / Acute type	a Power point lecture /practical application	short exam
7	2 theoretical + 2 practical	Understanding Chronic Inflammation	Chronic Inflammation	a Power point lecture /practical application	short exam
8	2 theoretical + 2 practical	Understanding Healing and repair	Healing and repair	a Power point lecture /practical application	short exam
9	2 theoretical + 2 practical	Understanding Hemodynamic disorders	Hemodynamic disorders	a Power point lecture /practical application	short exam
10	2 theoretical + 2 practical	Understanding Immunopathologica disorders	Immunopathologica disorders	a Power point lecture /practical application	short exam
11	2 theoretical + 2 practical	Understanding medical genetics	Introduction to medi genetics	a Power point lecture /practical application	short exam
12	2 theoretical + 2 practical	Understanding Chromosomal anomalies	Chromosomal anomalies	a Power point lecture /practical application	short exam
13	2 theoretical + 2 practical	Understanding Neoplasia – introduction	Neoplasia – introduction	a Power point lecture /practical application	short exam
14	2 theoretical + 2 practical	Understanding Types of neoplastic tumors	Types of neoplastic tumors	a Power point lecture /practical application	short exam
15	2 theoretical + 2 practical	Understanding Characteristic features of benign and malignant	Characteristic features of benign and malignant tumors	a Power point lecture /practical application	short exam

		tumors			
16	2 theoretical + 2 practical	Understanding Systemic and local effects of both benign and maligna neoplasms	Systemic and local effects of both benign and malignant neoplasms	a Power point lecture /practical application	short exam
17	2 theoretical + 2 practical	Understanding Pathology of infectious diseases with examples	Pathology of infectious diseases with examples	a Power point lecture /practical application	short exam
18	2 theoretical + 2 practical	Understanding Morphological patte of infectious disease in the human tissues and organs	Morphological patterns of infectious diseases in the human tissues and organs	a Power point lecture /practical application	short exam
19	2 theoretical + 2 practical	Understanding Immune escape by microbes	Immune escape by microbes	a Power point lecture /practical application	short exam
20	2 theoretical + 2 practical	Understanding Principles of environmental pathology	Principles of environmental pathology	a Power point lecture /practical application	short exam
21	2 theoretical + 2 practical	Understanding Smoking effects on the human health	Smoking effects on human health	a Power point lecture /practical application	short exam
22	2 theoretical + 2 practical	Understanding The effects of alcohol on human health	The effects of alcohol on human health	a Power point lecture /practical application	short exam
23	2 theoretical + 2 practical	Understanding The Side effects of drugs on human health and tissues	Side effects of drugs on human health and tissues	a Power point lecture /practical application	short exam
24	2 theoretical + 2 practical	Understanding The effects of radiation on human health and the diseases caused by it	The effects of radiation on human health and the diseases caused by it	a Power point lecture /practical application	short exam

25	2 theoretical + 2 practical	Understanding The Occupational disease	Occupational disease	a Power point lecture /practical application	short exam
26	2 theoretical + 2 practical	Understanding The Obesity and their effects on human health	Obesity and their effects on human health	a Power point lecture /practical application	short exam
27	2 theoretical + 2 practical	Understanding The Nutritional disorders and imbalance	Nutritional disorders and imbalance	a Power point lecture /practical application	short exam
28	2 theoretical + 2 practical	Understanding Burn effects with hypo and hyperthermia on human health	Burn effects with hypo and hyperthern on human health	a Power point lecture /practical application	short exam
29	2 theoretical + 2 practical	Understanding Electric shock effec on human body heal	Electric shock effects on human body health	a Power point lecture /practical application	short exam
30	2 theoretical + 2 practical	Preventive measures against pollutions	Preventive measures against pollutions	a Power point lecture /practical application	short exam

Course Evaluation

Term test1+2	Laboratory1+2	Quizzes	Projects	Final (theory +practical)
10+10=20	5+5=10	5	5	25+35=60

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

Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Robbins basic pathology 2018
Recommended books and references (scien journals, reports…)	Essential of General Pathology 2018
Electronic References, Websites	Pathology outlines.com

Course Description Form

72. Course Name:
Physiology
73. Course Code:
Half yearly
74. Semester / Year:
2023–2024
75. Description Preparation Date:
76.Available Attendance Forms:
Full attendance
77.Number of Credit Hours (Total) / Number of Units (Total)
60 hours – 4 units
78. Course administrator's name (mention all, if more than one name)
Name: Asst.Prof. Hussein Abdullah Email: : hussein.abdulla@alkafeel.edu.iq
79. Course Objectives

Course Objectives	• **Knowing the function of each bite of each organ of the blood system…..** • **Knowing the malfunction of each home appliance…** • **The functional relationship between the different internal organs…..**
80. Teaching and Learning Strategies	
Strategy	**Interactive lectures.** **Group discussions.** **Practical lessons in the laboratory.** **Case studies and reports.** **Using modern educational technologies**

81. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	2 hours	Understand the Blood: Composition	Blood: Composition	lecture	short exam
2-4	2 hours	Understanding RBCs: Definition	RBCs: Definition	lecture	short exam
5	2 hours	Understanding Erythropoiesis, Homeostasis, Death and Disposal	Erythropoiesis, Homeostasis, Death and Disposal	lecture	short exam
6	2 hours	Understanding White Blood Cells Platelet	White Blood Cells Platelet	lecture	short exam
7	2 hours	Understanding Heart Physiology	Heart Physiology	lecture	short exam
8	2 hours	Understanding Heart Physiology	Heart Physiology	lecture	short exam
9	2 hours	Understanding Lymphatic Physiology	Lymphatic Physiology	lecture	short exam
10	2 hours	Understanding Respiratory Physiology	Respiratory Physiology	lecture	short exam
11	2 hours	Understanding External Respiration	External Respiration	lecture	short exam
12	2 hours	Understanding Lung Volumes	Lung Volumes	lecture	short exam

13	2 hours	Understanding Acid-Base Balance	Acid-Base Balance	lecture	short exam
14	2 hours	Understanding Digestive Physiology	Digestive Physiology	lecture	short exam
15	2 hours	Understanding Digestive Physiology: GIT Chemi Digestion	Digestive Physiology: GIT Chemical Digestion	lecture	short exam
16	2 hours	Understanding Digestive Physiology: Accessory Organs	Digestive Physiology: Accessory Organs	lecture	short exam
17	2 hours	Understanding Urinary Physiology	Urinary Physiology	lecture	short exam
18	2 hours	Understanding The Urine Formation	Urine Formation	lecture	short exam
19	2 hours	Understanding The Urinary Tract	Urinary Tract	lecture	short exam
20 -21	2 hours	Understanding Endocrine Physiology:	Endocrine Physiology	lecture	short exam
22	2 hours	Understanding The Reproductive Physiolc	Reproductive Physiology	lecture	short exam
23	2 hours	Understanding Female Sex Physiology	Female Sex Physiolog	lecture	short exam
24	2 hours	Understanding Muscle Physiology	Muscles Physiology	lecture	short exam

25	2 hours	Understanding Nervous Physiology Generation Action Potential	Nervous Physiology Generation of Action Potential	lecture	short exam
26	2 hours	Understanding The CNS	CNS	lecture	short exam
27	2 hours	Understanding Spinal Cord	Spinal Cord	lecture	short exam
28-30	2 hours	Understanding The Sensory System	The Sensory System	lecture	short exam

Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	Human physiology
Recommended books and references (scien journals, reports...)	Medical physiology
Electronic References, Websites	

Course Description Form

82. Course Name:
Medical biology
83. Course Code:
Half yearly
84. Semester / Year:
2023-2024
85. Description Preparation Date:

86.Available Attendance Forms:

Full attendance

87.Number of Credit Hours (Total) / Number of Units (Total)

60 hours – 4 units

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

Name: Asst.Prof.Dr. Hussein Ali Kadhim, Asst.Lec. Dyaa Naji Hamza
Email: Husseinalikadhim@alkafeel.edu.iq

89. Course Objectives

Course Objectives	• **Understanding the role of biology in dental science.** • **Identify the important tissues and cells in oral and dental healt** • **Apply basic concepts of biology in the field of dentistry.**

90. Teaching and Learning Strategies

Strategy	**Interactive lectures.** **Group discussions.** **Practical lessons in the laboratory.** **Case studies and reports.** **Using modern educational technologies**

91. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical + 2 practical	Understand the principles of Medical and oral biology	Introduction to medical and oral biology	a Power point lecture/practical application	short exam
2	2 theoretical + 2 practical	Identify cells Minute and real cells	Prolaryotes and Eukaryotes	a Power point lecture /practical application	short exam

3	2 theoretical + 2 practical	Understanding general immunity And oral	Genral and oral immunity	a Power point lecture /practical application	short exam
4	2 theoretical + 2 practical	Understanding Bacetria and oral diseases	Bacetria and oral diseases	a Power point lecture /practical application	short exam
5	2 theoretical + 2 practical	Understanding Gentics and its role in oral diseases	Gentics and its role in oral diseases	a Power point lecture /practical application	short exam
6	2 theoretical + 2 practical	Understanding Simple epithelial tissue	Simple epithelial tissue	a Power point lecture /practical application	short exam
7	2 theoretical + 2 practical	Understanding Stratified epithelial tissue	Stratified epithelial tissue	a Power point lecture /practical application	short exam
8	2 theoretical + 2 practical	Understanding Glandular epithelial tissue	Glandular epithelial tissue	a Power point lecture /practical application	short exam
9	2 theoretical + 2 practical	Understanding General connective tissue types	General connective tissue types	a Power point lecture /practical application	short exam
10	2 theoretical + 2 practical	Understanding Muscular tissue	Muscular tissue	a Power point lecture /practical application	short exam
11	2 theoretical + 2 practical	Understanding Nerve tissue	Nerve tissue	a Power point lecture /practical application	short exam
12	2 theoretical + 2 practical	Understanding Cell structure (oral mucus membrane)	Cell structure (oral mucus membrane)	a Power point lecture /practical application	short exam
13	2 theoretical + 2 practical	Understanding Plasma membrane structure	Plasma membrane structure	a Power point lecture /practical application	short exam

14	2 theoretical + 2 practical	Understanding Passage of materials across cell membra	Passage of materia across cell membrane	a Power point lecture /practical application	short exam
15	2 theoretical + 2 practical	Understanding Cell cycle	Cell cycle	a Power point lecture /practical application	short exam
16	2 theoretical + 2 practical	Understanding Mitosis and Meiosis	Mitosis and Meiosis	a Power point lecture /practical application	short exam
17	2 theoretical + 2 practical	Understanding Cell energy	Cell energy	a Power point lecture /practical application	short exam
18	2 theoretical + 2 practical	Understanding Nucleic acid DNA and RNA	Nucleic acid DNA and RNA	a Power point lecture /practical application	short exam
19	2 theoretical + 2 practical	Understanding of parasitology	Introduction of parasitology	a Power point lecture /practical application	short exam
20	2 theoretical + 2 practical	Understanding Types of parasites and host	Types of parasites and host	a Power point lecture /practical application	short exam
21	2 theoretical + 2 practical	Understanding Human amoebas, E. histolytica, E.coli, E.gingivalis	Human amoebas, E. histolytica, E.coli, E.gingivalis	a Power point lecture /practical application	short exam
22	2 theoretical + 2 practical	Understanding Flagellates, Giardia lamblia, Trichomonas tenax, T.hominas, T.vaginalis	Flagellates, Giardia lamblia, Trichomonas tenax, T.hominas, T.vaginalis	a Power point lecture /practical application	short exam
23	2 theoretical + 2 practical	Understanding Leishmania , cutaneous and vesi	Leishmania , cutaneous and vesi	a Power point lecture /practical application	short exam

24	2 theoretical + 2 practical	Understanding Sporozoa, Plasmodium spp	Sporozoa, Plasmodium spp	a Power point lecture /practical application	short exam
25	2 theoretical + 2 practical	Understanding Toxoplasma gondii	Toxoplasma gondii	a Power point lecture /practical application	short exam
26	2 theoretical + 2 practical	Understanding Nemathelminthes, Ascaris lumbricoides	Nemathelminthes, Ascaris lumbricoides	a Power point lecture /practical application	short exam
27	2 theoretical + 2 practical	Understanding Ancylostoma duodenale, Entrobi vermicularis	Ancylostoma duodenale, Entrobi vermicularis	a Power point lecture /practical application	short exam
28	2 theoretical + 2 practical	Understanding Platyhelminthes, Fasciola hepatica	Platyhelminthes, Fasciola hepatica	a Power point lecture /practical application	short exam
29	2 theoretical + 2 practical	Understanding Schistosoma spp	Schistosoma spp	a Power point lecture /practical application	short exam
30	2 theoretical + 2 practical	Understanding Study various viruses	Study various viruses	a Power point lecture /practical application	short exam
Course Evaluation					

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

Learning and Teaching Resources

93. Required textbooks (curricular books, if any)

Main references (sources)	n ,8biology Human Cell Biology,3 edition.2017

Recommended books and references (scientific journals, reports..	Cell Biology,3 edition.2020
Electronic References, Websites	www.google.com

Course Description Form

94. Course Name:	
Histology	
95. Course Code:	
Half yearly	
96. Semester / Year:	
2023-2024	
97. Description Preparation Date:	
98.Available Attendance Forms:	
Full attendance	
99.Number of Credit Hours (Total) / Number of Units (Total)	
60 hours – 4 units	
100. Course administrator's name (mention all, if more than one name)	
Name: Israa Ali Abd-Alameer Email: israa.ali.abdalameer.ib @gmail.com	
101. Course Objectives	
Course Objectives	• **That the student knows the basic information in science** • **To know the basic types of tissues, Its composition and** • **Functions**
102. Teaching and Learning Strategies	
Strategy	**Interactive lectures.** **Group discussions.** **Practical lessons in the laboratory.** **Case studies and reports.** **Using modern educational technologies**

103. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	2 theoretical + 2 practical	Understand the Cells, Basic Tissue	Cells, Basic Tissue	a Power point lecture/practical application	short exam
2	2 theoretical + 2 practical	Understanding Connective tissue	Connective tissue	a Power point lecture /practical application	short exam
3	2 theoretical + 2 practical	Understanding Respiratory System : conducting portion	Respiratory System conducting portion	a Power point lecture /practical application	short exam
4	2 theoretical + 2 practical	Understanding Respiratory System: respiratory portion	Respiratory System: respiratory portion	a Power point lecture /practical application	short exam
5	2 theoretical + 2 practical	Understanding Urinary System: kidney nephrons, collectin tubules	Urinary System: kidney nephrons, collecting tubules	a Power point lecture /practical application	short exam
6	2 theoretical + 2 practical	Understanding Urinary System: ureter, urinary bladder, and male and female urethra	Urinary System: ure urinary bladder, and male and female urethra	a Power point lecture /practical application	short exam
7	2 theoretical + 2 practical	Understanding Integumentary System: Skin: epidermis, dermis	Integumentary System: Skin: epidermis, dermis	a Power point lecture /practical application	short exam
8	2 theoretical + 2 practical	Understanding Integumentary System: skin glands, hair, and nails	Integumentary Syste skin glands, hair, an nails	a Power point lecture /practical application	short exam

9	2 theoretical + 2 practical	Understanding Hemopoiesis: bone marrow	Hemopoiesis: bone Marrow	a Power point lecture /practical application	short exam
10	2 theoretical + 2 practical	Understanding Hemopoiesis: blood cells	Factors operating Hemopoiesis: blood cells	a Power point lecture /practical application	short exam
11	2 theoretical + 2 practical	Understanding Circulatory system	Circulatory system	a Power point lecture /practical application	short exam
12	2 theoretical + 2 practical	Understanding Lymphoid system	Lymphoid system	a Power point lecture /practical application	short exam
13	2 theoretical + 2 practical	Understanding Lymphoid system	Lymphoid system	a Power point lecture /practical application	short exam
14	2 theoretical + 2 practical	Understanding Lymphoid system	Lymphoid system	a Power point lecture /practical application	short exam
15	2 theoretical + 2 practical	Understanding nervous system	nervous system	a Power point lecture /practical application	short exam
16	2 theoretical + 2 practical	Understanding nervous system	nervous system	a Power point lecture /practical application	short exam
17	2 theoretical + 2 practical	Understanding Endocrine system	Endocrine system	a Power point lecture /practical application	short exam
18	2 theoretical + 2 practical	Understanding Endocrine system	Endocrine system	a Power point lecture /practical application	short exam
19	2 theoretical + 2 practical	Understanding Endocrine system	Endocrine system	a Power point lecture /practical application	short exam

20	2 theoretical + 2 practical	Understanding Digestive system	Digestive system	a Power point lecture /practical application	short exam
21	2 theoretical + 2 practical	Understanding Digestive system	Digestive system	a Power point lecture /practical application	short exam
22	2 theoretical + 2 practical	Understanding Digestive system	Digestive system	a Power point lecture /practical application	short exam
23	2 theoretical + 2 practical	Understanding Digestive system	Digestive system	a Power point lecture /practical application	short exam
24	2 theoretical + 2 practical	Understanding female Reproductive System	female Reproductive System	a Power point lecture /practical application	short exam
25	2 theoretical + 2 practical	Understanding female Reproductive System	female Reproductive System	a Power point lecture /practical application	short exam
26	2 theoretical + 2 practical	Understanding male Reproductive System	male Reproductive System	a Power point lecture /practical application	short exam
27	2 theoretical + 2 practical	Understanding male Reproductive System	male Reproductive System	a Power point lecture /practical application	short exam
28	2 theoretical + 2 practical	Understanding Special Sense Organs: eye	Special Sense Organs: eye	a Power point lecture /practical application	short exam
29	2 theoretical + 2 practical	Understanding Special Sense Organs: eye	Special Sense Organs: eye	a Power point lecture /practical application	short exam

30	2 theoretical + 2 practical	Understanding Special Sense Organs: ear	Special Sense Organs: ear	a Power point lecture /practical application	short exam

Course Evaluation				
Term test1+2	**Laboratory1+2**	**Quizzes**	**Projects**	**Final (theory +practical)**
10+10=20	**5+5=10**	**5**	**5**	**25+35=60**

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

Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	unqueira's basic histology text and atlas
Recommended books and references (scien journals, reports…)	Robbins basic pathology
Electronic References, Websites	

Course Description Form

1. Course Name:
Medical Chemistry
2. Course Code:
Half yearly
3. Semester / Year:
2023–2024
4. Description Preparation Date:
5. Available Attendance Forms:
Full attendance
6. Number of Credit Hours (Total) / Number of Units (Total)
60 hours – 4 units
7. Course administrator's name (mention all, if more than one name)
Name: Asst.Dr. Shaker Abdel Reda Abbas, Asst.Lect: Elaf Sabih Jawad Email: shakerabode@alkafeel.edu.iq

8. Course Objectives

Course Objectives	**• Understanding the role of chemistry in dental science.** **• Applying the basic concepts of chemistry in the field of dentistry**

9. Teaching and Learning Strategies

Strategy	**Interactive lectures.** **Group discussions.** **Practical lessons in the laboratory.** **Case studies and reports.** **Using modern educational technologies**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical + 2 practical	Understanding Acid Base and Salt	Acid, Base and Salt	a Power point lecture/practical application	short exam
2	2 theoretical + 2 practical	Understanding salts, preparation of salts	salts, preparation of salts	a Power point lecture /practical application	short exam
3	2 theoretical + 2 practical	Understanding Fluid and electrolyte	Fluid and electrolyte	a Power point lecture /practical application	short exam
4	2 theoretical + 2 practical	Understanding Buff pH and Acid-Base Balance	Buffer-pH and Acid-Base Balance	a Power point lecture /practical application	short exam

5	2 theoretical + 2 practical	Understanding acid-base balance and blood pH	acid-base balance and blood pH	a Power point lecture /practical application	short exam
6	2 theoretical + 2 practical	Understanding Colloids and colloidal dispersions	Colloids and colloidal dispersions	a Power point lecture /practical application	short exam
7	2 theoretical + 2 practical	Understanding Chirality in Biological Systems	Chirality in Biological Systems	a Power point lecture /practical application	short exam
8	2 theoretical + 2 practical	Understanding concentration, preparation of solutions	concentration, preparation of solutions	a Power point lecture /practical application	short exam
9	2 theoretical + 2 practical	Pollution	Pollution	a Power point lecture /practical application	short exam
10	2 theoretical + 2 practical	Understanding Radiochemistry	Radiochemistry	a Power point lecture /practical application	short exam
11	2 theoretical + 2 practical	Understanding Alkanes and Cycloalkanes	Alkanes and Cycloalkanes	a Power point lecture /practical application	short exam
12	2 theoretical + 2 practical	Understanding Alkenes and Alkynes	Alkenes and Alkynes	a Power point lecture /practical application	short exam
13	2 theoretical + 2 practical	Understanding Aromatic compounds	Aromatic compounds	a Power point lecture /practical application	short exam
14	2 theoretical + 2 practical	Understanding Aromatic compounds in Nature	Aromatic compounds in Nature	a Power point lecture /practical application	short exam
15	2 theoretical + 2 practical	Understanding Stereoisomers of Carbon	Stereoisomers of Carbon	a Power point lecture /practical application	short exam

16	2 theoretical + 2 practical	Understanding Diastereomers	Diastereomers	a Power point lecture /practical application	short exam
17	2 theoretical + 2 practical	Understanding Alcohols, Phenols, Ethers and Thiols (preparation, reactions)	Alcohols, Phenols, Ethers and Thiols (preparation, reactions)	a Power point lecture /practical application	short exam
18	2 theoretical + 2 practical	Understanding Carboxylic Acids And Their Derivatives , part 1	Carboxylic Acids And Their Derivatives , part 1	a Power point lecture /practical application	short exam
19	2 theoretical + 2 practical	Understanding Carboxylic Acids And Their Derivatives , part 2	Carboxylic Acids And Their Derivatives , part 2	a Power point lecture /practical application	short exam
20	2 theoretical + 2 practical	Understanding Aldehydes and ketones	Aldehydes and ketones	a Power point lecture /practical application	short exam
21	2 theoretical + 2 practical	Understanding Carbohydrates	Carbohydrates	a Power point lecture /practical application	short exam
22	2 theoretical + 2 practical	Understanding Monosaccharide's	Monosaccharide's	a Power point lecture /practical application	short exam
23	2 theoretical + 2 practical	Understanding Disaccharides Carbohydrates and oral health	Disaccharides Carbohydrates and oral health	a Power point lecture /practical application	short exam
24	2 theoretical + 2 practical	Understanding Lipid	Lipids	a Power point lecture /practical application	short exam
25	2 theoretical + 2 practical	Understanding Derived lipids The role of lipids in teeth diseases	Derived lipids The role of lipids in teeth diseases	a Power point lecture /practical application	short exam

26	2 theoretical + 2 practical	Understanding Prote	Proteins	a Power point lecture /practical application	short exam
27	2 theoretical + 2 practical	Understanding Amir acids Effects of prot on oral health	Amino acids Effects protein on oral health	a Power point lecture /practical application	short exam
28	2 theoretical + 2 practical	Nucleic Acids	Nucleic Acids	a Power point lecture /practical application	short exam
29	2 theoretical + 2 practical	Understanding Nucleosides, Nucleotides	Nucleosides, Nucleotides	a Power point lecture /practical application	short exam
30	2 theoretical + 2 practical	Understanding Diox and ribo Nucliec acids	Dioxy and ribo Nucliec acids	a Power point lecture /practical application	short exam

Course Evaluation

Term test1+2	Laboratory1+2	Quizzes	Projects	Final (theory +practical)
10+10=20	5+5=10	5	5	25+35=60

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

Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Chemical Bases of life
Recommended books and references (scien journals, reports…)	Textbook of Biochemistry , General Chemistry principle and applications Inorganic
Electronic References, Websites	www.google.com

Course Description Form

105. Course Name:
Microbiology

106. Course Code:
Half yearly
107. Semester / Year:
2023–2024
108. Description Preparation Date:
109. Available Attendance Forms:
Full attendance
110. Number of Credit Hours (Total) / Number of Units (Total)
60 hours – 4 units
111. Course administrator's name (mention all, if more than one name)
Name: Asst.Prof.Dr. Hussein Ali Kadhim, Asst.Lec. Hiba ahmed jawad Email: Husseinalikadhim@alkafeel.edu.iq

112. Course Objectives	
Course Objectives	• **Understanding the role of microbiology in dental science.** • **Identify important microorganisms in oral and dental health.** • **Applying the basic concepts of microbiology in the field of dentistry.**

113. Teaching and Learning Strategies	
Strategy	**Interactive lectures.** **Group discussions.** **Practical lessons in the laboratory.** **Case studies and reports.** **Using modern educational technologies**

114. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	2 theoretical + 2 practical	Understand the Bacteriology Lab. safety rules	Bacteriology Lab. safety rules	a Power point lecture/practical application	short exam
2	2 theoretical + 2 practical	Understanding Morphology & Structure of Bacteria The microscope	Morphology & Structure of Bacteria The microscope	a Power point lecture /practical application	short exam
3	2 theoretical + 2 practical	Understanding Bacterial Cell Wall Sterilization	Bacterial Cell Wall Sterilization	a Power point lecture /practical application	short exam
4	2 theoretical + 2 practical	Understanding Bacterial growth	Bacterial growth	a Power point lecture /practical application	short exam
5	2 theoretical + 2 practical	Understanding Physiology & Metabolism of M.Os. Growth on media	Physiology & Metabolism of M.Os. Growth on media	a Power point lecture /practical application	short exam
6	2 theoretical + 2 practical	Understanding Relation between Bacteria &Diseases Types of culture media	Relation between Bacteria &Diseases Types of culture media	a Power point lecture /practical application	short exam
7	2 theoretical + 2 practical	Understanding Ecology of the Oral Flora Sampling of M.Os	Ecology of the Oral Flora Sampling of M.Os	a Power point lecture /practical application	short exam
8	2 theoretical + 2 practical	Understanding Oral Environment Cultivation methods	Oral Environment Cultivation methods	a Power point lecture /practical application	short exam
9	2 theoretical + 2 practical	Understanding Germ-free animals Bacterial identification	Germ-free animals Bacterial identification	a Power point lecture /practical application	short exam
10	2 theoretical + 2 practical	Understanding Factors operating on oral flora Bacterial staining	Factors operating on oral flora Bacterial staining	a Power point lecture /practical application	short exam

11	2 theoretical + 2 practical	Understanding Dental Plaque Acid fast&special stain	Dental Plaque Acid fast&special stain	a Power point lecture /practical application	short exam
12	2 theoretical + 2 practical	Understanding Dental Caries Biochemical reaction	Dental Caries Biochemical reaction	a Power point lecture /practical application	short exam
13	2 theoretical + 2 practical	Understanding Immunology, Specific & Nonspecific immune	Immunology, Specific & Nonspecific immune	a Power point lecture /practical application	short exam
14	2 theoretical + 2 practical	Understanding The Concept of Immunity Antimicrobial therapy	The Concept of Immunity Antimicrobial therapy	a Power point lecture /practical application	short exam
15	2 theoretical + 2 practical	Understanding Immunity of the Oral Cavity Identification of M.Os	Immunity of the Oral Cavity Identification of M.Os	a Power point lecture /practical application	short exam
16	2 theoretical + 2 practical	Understanding The Streptococci Identification of M.Os	The Streptococci Identification of M.Os	a Power point lecture /practical application	short exam
17	2 theoretical + 2 practical	Understanding The Staphylococci Study of Staphylococci	The Staphylococci Study of Staphylococci	a Power point lecture /practical application	short exam
18	2 theoretical + 2 practical	Understanding The Neisseriaceae Study of Streptococci	The Neisseriaceae Study of Streptococci	a Power point lecture /practical application	short exam
19	2 theoretical + 2 practical	Understanding The Corynebacteria Corynebacterium	The Corynebacteria Corynebacterium	a Power point lecture /practical application	short exam
20	2 theoretical + 2 practical	Understanding The Mycobacteria Mycobacterium	The Mycobacteria Mycobacterium	a Power point lecture /practical application	short exam

21	2 theoretical + 2 practical	Understanding The Enterobacteriaceae	The Enterobacteriaceae	a Power point lecture /practical application	short exam
22	2 theoretical + 2 practical	Understanding The Bacilli & Clostridia G+ Bacillus spp	The Bacilli & Clostridia G+ Bacillus spp	a Power point lecture /practical application	short exam
23	2 theoretical + 2 practical	Understanding The Lactobacilli G+ Clostridium spp	The Lactobacilli G+ Clostridium spp	a Power point lecture /practical application	short exam
24	2 theoretical + 2 practical	Understanding Fusiform & Spirochaetes Klebsiella & Proteu	Fusiform & Spirochaetes Klebsiella & Proteus	a Power point lecture /practical application	short exam
25	2 theoretical + 2 practical	Understanding The Actinomyces Actinomycetes	The Actinomyces Actinomycetes	a Power point lecture /practical application	short exam
26	2 theoretical + 2 practical	Understanding The Actinobacillus The Neisseriae	The Actinobacillus The Neisseriae	a Power point lecture /practical application	short exam
27	2 theoretical + 2 practical	Understanding The Bacteroides Shigella	The Bacteroides Shigella	a Power point lecture /practical application	short exam
28	2 theoretical + 2 practical	Understanding Miscellaneous Microorganisms Pseudomonas	Miscellaneous Microorganisms Pseudomonas	a Power point lecture /practical application	short exam
29	2 theoretical + 2 practical	Understanding Virology & Viruses Viruses	Virology & Viruses Viruses	a Power point lecture /practical application	short exam
30	2 theoretical + 2 practical	Understanding Oral Mycology & Parasitology Fungi media	Oral Mycology & Parasitology Fungi media	a Power point lecture /practical application	short exam
Course Evaluation					

Term test1+2 10+10=20	Laboratory1+2 5+5=10	Quizzes 5	Projects 5	Final (theory +practical) 25+35=60

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

Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Kuby Immunology Eighth Edition ©2019 Essential Microbiology for Dentistry 5th Edit (2018)
Recommended books and references (scien journals, reports...)	Jenni Punt; Sharon Stanford; Patricia Jones; Judy Owen Lakshman Samaranayake
Electronic References, Websites	www.google.com

Course Description Form

1. Course Name:

Biochemistry

2. Course Code:

Half yearly

3. Semester / Year:

2023-2024

4. Description Preparation Date:

5. Available Attendance Forms:

Full attendance

6. Number of Credit Hours (Total) / Number of Units (Total)

60 hours – 4 units

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

Name: Dr.Abdel-Sahib Saad Gibran, Asst.Lect: Elaf Sabih Jawad
Email: abdalsahebsaad@alkafeel.edu.iq

8. Course Objectives

Course Objectives	**An introduction to biochemistry, understanding its functions, the variables occurring in it, irregularities in its levels, its biological and pathological**

	implications, and methods for measuring its levels.

9. Teaching and Learning Strategies

Strategy	**Interactive lectures.** **Group discussions.** **Practical lessons in the laboratory.** **Case studies and reports.** **Using modern educational technologies**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical + 2 practical	Enzymology	Definition Classification Coenzymes Modes of Action	a Power point lecture/practical application	short exam
2	2 theoretical + 2 practical	Enzymology	Factors Influencing Enzyme Activity Enzyme Activation Enzyme Inhibition	a Power point lecture /practical application	short exam
3	2 theoretical + 2 practical	Enzymology	Isozymes Clinical Enzymology	a Power point lecture /practical application	short exam
4	2 theoretical + 2 practical	Carbohydrate metabolism	Digestion of Carbohydrate Absorption of Carbohydrate Glycolysis Cori's Cycle	a Power point lecture /practical application	short exam

5	2 theoretical + 2 practical	Carbohydrate metabolism	Metabolic Fate of Pyruvate Gluconeogenesis Glycogen Metabolism Glycogen Storage Disease	a Power point lecture /practical application	short exam
6	2 theoretical + 2 practical	Carbohydrate metabolism	Regulation of Blood Glucose Normal Plasma Glucose Level Diabetes Mellitus	a Power point lecture /practical application	short exam
7	2 theoretical + 2 practical	Lipid metabolism	Classification of Lipids Fatty Acids Digestion of Lipids Absorption of Lipids	a Power point lecture /practical application	short exam
8	2 theoretical + 2 practical	Enzymology	Definition Classification Coenzymes Modes of Action	a Power point lecture /practical application	short exam
9	2 theoretical + 2 practical	Lipid metabolism	Beta – Oxidation of Fatty acids Synthesis of Fatty Acids Synthesis of TGA Fatty liver and Lipotropic Factors	a Power point lecture /practical application	short exam
10	2 theoretical + 2 practical	Lipid metabolism	Metabolism of Ketone Bodies Ketosis Plasma Lipids Lipid Diseases	a Power point lecture /practical application	short exam
11	2 theoretical + 2 practical	Amino Acid Metabolism	Digestion of Protein General Metabolism of Amino Acids Formation of Ammonia Urea Cycle	a Power point lecture /practical application	short exam
12	2 theoretical + 2 practical	Amino Acid Metabolism	Glycine Phynylalanine and Tyrosine Phynylketonurea Alkaptonurea	a Power point lecture /practical application	short exam
13	2 theoretical + 2 practical	Amino Acid Metabolism	Albinism Tryptophan Histidine One – Carbon Metabolism Albumin	a Power point lecture /practical application	short exam
14	2 theoretical + 2 practical	Bilirubin Metabolism	Heme Catabolism Bilirubin Fate Jaundice	a Power point lecture /practical application	short exam

15	2 theoretical + 2 practical	Vitamins	Vitamin A Vitamin D Vitamin E Vitamin K Vitamin B1 Vitamin B2	a Power point lecture /practical application	short exam
16	2 theoretical + 2 practical	Lipid metabolism	Beta – Oxidation of Fatty acids Synthesis of Fatty Acids Synthesis of TGA Fatty liver and Lipotropic Factors	a Power point lecture /practical application	short exam
17	2 theoretical + 2 practical	Vitamins	Vitamin B3 Vitamin B6 Pantothenic acid Biotin Folic Acid Vitamin B12 Vitamin C	a Power point lecture /practical application	short exam
18	2 theoretical + 2 practical	Nutrition	Definition Importance of Carbohydrate Nutritional Importance Lipids	a Power point lecture /practical application	short exam
19	2 theoretical + 2 practical	Nutrition	Protein – Energy Malnutrition Obesity Prescription of Diet	a Power point lecture /practical application	short exam
20	2 theoretical + 2 practical	Detoxification	Phases of Detoxification Free Radicals	a Power point lecture /practical application	short exam
21	2 theoretical + 2 practical	Biochemistry of Tee and Caries	Saliva Composition of Teeth	a Power point lecture /practical application	short exam
22	2 theoretical + 2 practical	Biochemistry of Tee and Caries	Dental Caries Fluoride	a Power point lecture /practical application	short exam
23	2 theoretical + 2 practical	Hormones	Introduction Classification Mechanism of Activation Regulation	a Power point lecture /practical application	short exam
24	2 theoretical + 2 practical	Vitamins	Functions of TCA Cycle Reactions of Cycle Significance of TCA Cycle	a Power point lecture /practical application	short exam

			Regulation of TCA Cy		
25	2 theoretical + 2 practical	Tricarboxylic Acid Cycle and Biologica Oxidation	Redox Potentials High Energy Compounds Organization of Electron Transport Chain	a Power point lecture /practical application	short exam
26	2 theoretical + 2 practical	Tricarboxylic Acid Cycle and Biologica Oxidation	Vitamin B3 Vitamin B6 Pantothenic acid Biotin Folic Acid Vitamin B12 Vitamin C	a Power point lecture /practical application	short exam
27	2 theoretical + 2 practical	Clinical Cases	Clinical Cases	a Power point lecture /practical application	short exam
28	2 theoretical + 2 practical	Clinical Cases	Clinical Cases	a Power point lecture /practical application	short exam
29	2 theoretical + 2 practical	Clinical Cases	Clinical Cases	a Power point lecture /practical application	short exam
30	2 theoretical + 2 practical	Tricarboxylic Acid Cycle and Biologica Oxidation	Functions of TCA Cycle Reactions of Cycle Significance of TCA Cycle Regulation of TCA Cycle	a Power point lecture /practical application	short exam

Course Evaluation

Five degrees of presence and absence

Five grades of assignments

Fifteen degrees half the year

Ten practical evaluation marks

Five theoretical evaluation marks

Twenty–five final practical marks

Thirty–five final theoretical marks

Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (sources)	Textbook of Biochemistry for Dental/ Nursing/ Pharmacy Students; MN Chatterjea
Recommended books and references (scien journals, reports...)	Text of Biochemistry for dental students; DM Vasudevan Lecture notes on clinical chemistry; G. J. Bechectt TIETZ Textbook of Clinical Chemistry
Electronic References, Websites	www.google.com

Course Description Form

1. Course Name:
Arabic
2. Course Code:
Half yearly
3. Semester / Year:
2023-2024
4. Description Preparation Date:
5. Available Attendance Forms:
Full attendance
6. Number of Credit Hours (Total) / Number of Units (Total)
1 hours – 1 units
7. Course administrator's name (mention all, if more than one name)
Name: Asst.Lec. hiba alkharsan Email: hiba.alkharsan@alkafeel.edu.iq
8. Course Objectives

Course Objectives	**1. Learn about the types of common linguistic errors, explain their causes, and how to avoid them.** **2. He learns the rules related to the marfu' ta', the long ta' and the open ta' and how to write them correctly.** **3. He learns the rules for writing the extended and shortened alifs and using the solar and lunar letters correctly.** **4. Identifying the ḍād and ḍā' and knowing how to distinguish between them in writing.** **5. Learn how to write the hamza correctly according to the linguistic rules.**

	6. Recognize punctuation marks and use them correctly in texts. **7. Understands the differences between a noun and a verb and distinguishing between them in sentences.** **8. Understands objects and how to use them correctly in texts.** **9. Learns numbers and numbers and their use in expressing quantities.** **10. Avoids common linguistic errors in practical contexts to enhance understanding of grammar and improve language skills.** **11. It studies Noun and Tanween, understanding the meanings of prepositions and using them correctly in sentences.** **12. It focuses on the formal aspects of administrative speech and how to write it in a correct and appropriate manner.** **13. Identify the language of administrative discourse and understand its use in administrative communication.** **14. Understands models of administrative correspondence to apply the acquired concepts and skills in administrative discourse.**

9. Teaching and Learning Strategies

Strategy	**This course aims to teach students the proper use of the Arabic language in their official correspondence, especially written, when they become members of a working body, whether in the private or public sector. Clear, concise language is essential in any business environment.**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-9	1 hour	Knowing the most prominent linguistic errors in the Arabic language	Introduction to linguistic errors - the marfu' ta', the long ta', and the open ta' Rules for writing extended and short alifs - solar and lunar letters	Study and practice	short exam
11-16	1 hour	Study punctuation marks, and differentiate between noun and a verb	Dhaad and Dhaa Writing the hamza punctuation marks The noun, the verb, and the difference between them Effects The number	Listen and practice	Skill reveal

17-20	1 hour	Apply common linguistic errors	Applications of common linguistic errors Nun and Tanween - meanings	Listen and practice	practical application
22-26	1 hour	Training in writing administrative letters	Formal aspects of administrative discourse The language of administrative discourse	a Power point lectu /practical applicatic	Skill reveal
27-30	1 hour	View examples of administrative correspondence	Examples of administrative correspondence	Written training	Practical application

Course Evaluation
First semester: 10 marks, mid-year: 20 marks, final: 70 marks

Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	Lecture file circulated by the government twinning agency
Recommended books and references (scien journals, reports...)	
Electronic References, Websites	

Course Description Form

116. Course Name:	
Preventive dentistry	
117. Course Code:	
DNK5-PV	
118. Semester / Year:	
Fifth year	
119. Description Preparation Date:	
10-9-2023	
120. Available Attendance Forms:	
On campus	
121. Number of Credit Hours (Total) / Number of Units (Total)	
Theory 30 hours in 30 weeks Practical: 90 hours in 30 weeks Number of units: 5	
122. Course administrator's name (mention all, if more than one name)	
Name: Khamaal Ibrahim Muhsin Email: d.khamaal1977@gmail.com	
123. Course Objectives	
Course Objectives	• Providing students with basic scientific

	knowledge about preventive dentistry. • Keeping up with the latest scientific developments in preventive dentistry. • Training students to apply preventive dentistry in a practical way. • Encouraging students to pursue scientific research in the field of preventive dentistry.

124.	Teaching and Learning Strategies
Strategy	• Applying education based on individual differences in teaching preventive dentistry: The teacher can modify the educational content or teaching methods to meet the needs of different students. For example, a teacher can provide more support to students who are having difficulty understanding certain material. • Game-based learning: where students learn by participating in fun activities or competitions. • Create a website that contains educational content about pediatric dentistry, such as videos, presentations, and articles. Students can access this content anytime, anywhere.

125. Course Structure

Week	Hour	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	-What is preventive dentistry? - Is preventive dentistry still needed? -Levels of prevention -Caries prevention: how far it had come in one century!	Preventive Dentistry (introduction)	Lectures	Weekly exams in the form of choices, seminars and discussion
2	1	-factors affecting caries - Dynamics process of de-Remineralization -the development of carious lesion occurs in three distinct stage	Dental Caries development		
3	1	-Fluoride and Dental Caries. -Fluoride in Environment. -Fluoride Metabolism: a. Absorption of fluoride. b. Distribution of Fluoride in the Body. c. Fluoride Excretion	Fluoride in Dentistry		
4	1	-Dental Fluorosis. -Clinical Appearance and classification of dental fluorosis. -Pathogenesis of dental fluorosis. -Treatment of Dental Fluorosis. -Incipient Caries and Fluorosis.	Systemic fluoridation)history(		
5	1	-Artificial water fluoridation level -Advantages and disadvantage of water fluoridation. -Systemic effect of fluoride Fluoride compound used in water fluoridation -Medical aspect of Water Fluoridation -School Water Fluoridation	Communal water fluoridation		
6	1	-Instruction to use fluoride supplement (tablet or lozenges or drop) -Fluoridated salt -Fluoridated milk.	Fluoride supplements		
7	1	-Advantages & Disadvantages of topical	Topical		

		fluoride. -Mechanisms of Fluoride Action. -Fluoride's effect on tooth mineral. -Inhibition of Bacterial Enzyme System. -Classification of Topical Fluoride. -Fluoride Compounds.	fluoridation		
8	1	-Requisites for self-applied fluoride agents. -Fluoride Dentifrices. -Fluoride Mouth rinses. -Fluoride Gel. -Fluoride and Tooth erosion	Self-applied fluoride		
9	1	-Indication of Topical fluoride applications -Types of professionally applied fluorides: Aqueous Solutions Fluoride Gels. -Fluoride Varnishes. -Fluoride Prophylactic Paste -Restorative Materials Containing Fluoride -Fluoride Containing Devices (Slow Release).	Professionally applied fluoride		
10	1	-Factors affecting fluoride toxicity. -Acute toxicity. -Management of fluoride acute toxicity. -Chronic Toxicity. -Dental fluorosis and skeletal fluorosis.	Toxicity of fluoride		
11	1	-Microbial ecology in the oral cavity -Acquisition of the resident oral micro flora Site distribution of oral bacteria -Ecological factors affecting the growth and metabolism of oral bacteria - Dental biofilms: development, structure, composition and properties -Development of dental biofilms Pellicle formation - Microbial colonization	Microbiology of caries		
12	1	-Virulence of microorganisms -Major dental caries-associated bacteria Mutans streptococci,Lactobacilli, Actinomyces, Veillonella -Other caries-associated bacteria	Cariogenic potential of bacteria		
13	1	-Definition History -indication and contraindication -sealant in adult -Ideal sealants materials -Requisites for Sealant Retention -Colored Versus Clear Sealants -Sealants for proximal enamel surfaces	Fissure sealants		
14	1	-Minimally Invasive Treatment Technique -Minimally Invasive Cavity Preparation Non-machinery Preparation -LASER -Chemo mechanical Caries Removal -Preventive Resin Restorations -Remineralization Treatment	New approach in restorative dentistry		
15	1	-Role of carbohydrates in caries development -evidences factors affecting food cariogenicity -physical form of food and clearance time -types of fermentable carbohydrate	Diet nutrition and oral heal Diet and dental caries		

		-the basic stephan curve frequency of intake sugar and dental caries			
16	1	-The sweetness of sugars -Non- sugar sweeteners -Bulk sweeteners -Intense sweeteners -Protective factors in food -Fruit and dental caries -Testing food cariogenicity	Non-sugar sweeteners		
17	1	-Nutritional status assessment -Body Mass Index -Assessment of dietary intake -Objectives of dietary assessment -24hour recall Dietary record -Food frequency questionnaires -Evaluation of cariogenic potential -Evaluation of nutritive value -Dietary counseling	Dietary counseling in dental practice		
18	1	-Nutrition and oral health -Nutrition dental caries -Systemic effect -Morphology of the teeth -The quality of the hard tissues -Quality of saliva -Evidences of the effect of some nutrients on dental caries -Nutrition and eruption of teeth	Nutrition and oral health		
19	1	-Nutrition and periodontal health -The mechanisms by which nutrition may affect periodontal disease -Effect of food texture on periodontal health -Nutrition and oral mucosal disease -Nutrition and oral cancer -Primary prevention -Secondary prevention	Nutrition, diet & periodontal disease		
20	1	Oral fluid Function of saliva Composition of saliva Factors influencing salivary composition Salivary flow rate Factors influencing salivary flow rate Influence of saliva on dental caries	Saliva and dental caries		
21	1	- Non-specific immune factors -Specific immune factors -Immunization of dental caries -Vaccination	Oral immune system		
22	1	-Acquired pellicle -Dental plaque -Dental calculus -Mechanical plaque control -Tooth brushing methods -Objectives of tooth brushing -Interdental Cleaning aids -Oral irrigation devices -Gingival massage	Oral hygiene measures		
23	1	-Ideal properties of chemical plaque control agents -Modes of action Chlorhexidine, Triclosan -Essential oil mouthwashes or Listerine	Oral hygiene measures 2		

		Enzymes -Dentifrices Composition			
24	1	-Detection systems of caries -Visual and tactile examinations -Radiographic techniques - Fiber Optic Transillumination (FOTI and DiFOTI) Fluorescent techniques -Quantitative Light-induced Fluorescence Technique (QLF) -Laser fluorescence – DIAGNODent	Diagnosis of caries		
25	1	-Steps for diagnosis of high risk group -Goals of caries risk assessment -Caries identification -Caries risk factors -Caries protective factors -Caries susceptibility -Caries activity - Factors in caries risk assessment -Caries risk in children	Identification of high risk group of dental caries		
26	1	-Classification of disabling conditions -The issues regarding the delivery of care to people with disabilities -Dental management and preventive measures among disabled individuals -The risk factors for dental caries among disabled individuals -People with physical (neurological) impairment Visual Deficits Hearing problems Mentally retardation medical compromised patients -Specialized Equipment for disabled patient management	Dental health of disabled and medically compromised patients Dental health of disabled		
27	1	-Aging -Geriatric dentistry -Prevention of elderly segment of population -The major results of aging process -Changes of tooth structure -Root caries	Geriatric dentistry		
28	1	-objectives of health education -principles of health education -Communication -health education planning -Steps of learning	Dental health education and motivation		
29	1	-What is LASER? -Laser effects on tissues -Role of laser in preventive dentistry -Certain roles of laser in prevention of dental caries -CO2 laser Nd:YAG laser Ruby laser Erbium lasers -Benefits of dental lasers -Drawbacks of dental lasers -Laser Safety -Laser Safety Officer (LSO) duties	Uses of LASER in dentistry		
30	1	-Dental implant parts	Prevention of peri-		

		-Dental implant and biofilm -Implant Maintenance -Professional care in dental clinic -Home care	implantitis		

126. Course Evaluation

15% Theory mid exam		40% sum of degrees before final examination
8 % quizzes	10 % theory	
2% interaction during the school year		
10% clinical requirements	15% practical	
3 % Fill out a medical sheet for pedodontics cases (case sheet)		
2% seminars		
25% final practical examination		60% final examination
35% final theory examination		

127. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	• Primary preventive dentistry by Harris and Christen • Comprehensive Preventive Dentistry Essentials of preventive and community dentistry by Peter
Recommended books and references (scientific journals, reports...)	Professional Prevention in Dentistry: Advances in Dentistry
Electronic References, Websites	

Course Description Form

128. Course Name:
orthodontics
129. Course Code:
DNK4-OR
130. Semester / Year:
fourth year
131. Description Preparation Date:
10-9-2023
132. Available Attendance Forms:
On campus
133. Number of Credit Hours (Total) / Number of Units (Total)
Theory 30 hours in 30 weeks Practical: 60 hours in 30 weeks Number of units: 6

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

Name: Ahmed Muhsin Almayaly
Email: ahmedalmayali@yahoo.co.uk

135. Course Objectives

Course Objectives	• Providing students with basic scientific knowledge about orthodontics. • Developing students' skills in diagnosing various orthodontic cases • Training students to treat orthodontic cases. • Encouraging students to pursue scientific research in the field of orthodontics.

136. Teaching and Learning Strategies

Strategy	• Applying education based on individual differences in teaching orthodontics: The teacher can modify the educational content or teaching methods to meet the needs of different students. For example, a teacher can provide more support to students who are having difficulty understanding certain material. • Create a website that contains educational content about orthodontics, such as videos, presentations, and articles. Students can access this content anytime, anywhere.

137. Course Structure

Week	Hour	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Definition of orthodontics - Definition of occlusion, normal, ideal and malocclusion	Introduction to orthodontics	Lectures	Weekly exams in the form of choices, seminars and discussion
2	1	Six keys of normal occlusion - Aims of orthodontic treatment	Introduction to orthodontics		
3	1	Important orthodontic definitions Classification of malocclusion	orthodontic definitions		
4	1	- Definitions of growth, development and maturity - Stages of development (ovum till birth)	Growth and development		
5	1	Theories of bone growth - Definitions of growth site, growth center, displacement, and drift	Growth and development		
6	1	Growth curve and maximum growth spurt - Prenatal and postnatal growth and development of hard tissues	Growth and development		
7	1	Prenatal and postnatal growth and	Growth and		

		development of soft tissues - Developmental anomalies	development		
8	1	Compensation and adaptation	- Jaw rotation		
9	1	a-Stages of tooth development: (Formation, calcification and root completion)	Deciduous and permanent dentition		
10	1	b-Tooth eruption (stages and theories), Sequences and timing of eruption	Deciduous and permanent dentition		
11	1	Development of occlusion a. new born oral cavity. b. Deciduous dentition stage - Dental changes till 6 years of age.	Deciduous and permanent dentition		
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.	Deciduous and permanent dentition		
13	1	-Genetic and inherited etiological factors of malocclusion- Classification of etiological factors a. General factors i. Skeletal factors	Etiology of malocclusion:		
14	1	Soft tissue factors			
15	1	Mid year exam	Mid year exam		
16	1	iii. dental factors			
17	1	b. Local factors (definitions without treatment)			
18	1	a. Tissue changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth movement b. Accelerated tooth movement	Tooth movement		
19	1	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	c. Biomechanics		

		and factors affecting it.			
20	1	(pain, mobility, pulp effect, root resorption, white spot lesions).	d. iatrogenic effect of tooth movement		
21	1	Biomechanics	Biomechanics		
22	1	(definition, indications, types)	Anchorage		
23	1	a. Overview: i. passive orthodontic appliances (habit breaker, retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination) iii. Other active appliances: space regainer, Invisalign	Orthodontic appliances		
24	1	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	b. Removable Orthodontic Appliance:		
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	b. Removable Orthodontic Appliance:		
26	1	Types, components, advantages, limitation, biomechanics, banding vs. bonding	. Fixed orthodontic appliance:		
27	1	Types, components, advantages, limitation, mode of action	. Orthopedic and Myofunctional appliance:		
28	1	continue Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action	. Orthopedic and Myofunctional appliance:		
29	1	Retention (definition, reason, time)	. Retention and		

			retainers		
30	1	clear overlay, positioners, permanent fixation, precision	Retainers		

138. Course Evaluation

15% Theory mid exam		40% sum of degrees before final examination
13 % quizzes and exams	15% theory	
2% interaction during the school year		
5% wire bending requirements	10% practical	
2% different activities in the lab		
3% seminars		
25% final practical examination		60% final examination
35% final theory examination		

139. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Introduction to orthodontics 4th edition. Laura Mitchel
Main references (sources)	Contemporary orthodontics 6th edition William R. Proffit
Recommended books and references (scientific journals, reports...)	European orthodontic journal Angle orthodontic journal
Electronic References, Websites	

Course Description Form

140. Course Name:
Orthodontics
141. Course Code:
DNK5-OR
142. Semester / Year:
Fifth year
143. Description Preparation Date:
10-9-2023
144. Available Attendance Forms:
On campus
145. Number of Credit Hours (Total) / Number of Units (Total)
Theory 30 hours in 30 weeks Practical: 90 hours in 30 weeks Number of units: 6

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

Name: Mouayad Zwain
Email: mouayadfzwain@alkafeel.edu.iq

147. Course Objectives

Course Objectives	• the student learn the basics of orthodontics • And the different types of orthodontic devices that are used in Dental treatments that are not aligned correctly • How to diagnose cases that need orthodontic treatment and write a list. developing a treatment plan for simple cases

148. Teaching and Learning Strategies

Strategy	Understanding the basics of orthodontics is essential for any student who wants to succeed in this subject. Students must read books, magazines and scientific articles about orthodontics. In addition to understanding and assimilating the prescribed curriculum. Obtaining practical training on the use of various orthodontic devices. They can do this through action in the orthodontic clinic. Cooperative learning is where students can work together in groups to discuss concepts and solve problems via seminars.

149. Course Structure

Week	Hour	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	- Students will be able to accurately collect and record patient personal data, including demographics, medical history, and dental history Students will be able to analyze and interpret diagnostic findings to formulate a treatment plan that addresses the patient's individual needs and goals.	Orthodontic diagnosis and treatment planning: a- Personal data b- Consent form c- Clinical examination i. General body stature	Lectures	Weekly exams in the form of choices, seminars and discussion
2	1	Students will be able to understand how facial aesthetics play a role in orthodontic treatment planning. Students will be able to palpate and assess the underlying skeletal structures of the head and neck, including the maxilla, mandible, zygomatic bones, and temporomandibular joints. Students will be able to assess the	ii. Face examination in 3 dimensions iii. skeletal examination iv. Soft tissue examination		

		lips, cheeks, tongue, and other soft tissues of the face and mouth for their influence on occlusion and facial aesthetics.			
3	1	Students will be able to define the key terms associated with occlusion, including static and dynamic occlusion, centric relation, centric occlusion, eccentric contacts, intercuspal clearance, and overbite/overjet. Students will be able to understand the principles of normal occlusion and the Angle's classification system for malocclusions.	v. Occlusion		
4	1	Students will be able to: • Identify and describe the different types of teeth (incisors, canines, premolars, molars) and their specific functions in mastication • Assess the patient for signs and symptoms of TMJ problems, including pain, clicking, popping, and limited jaw movement.	vi. Dentition vii.Temporomandibular joint		
5	1	Students will be able to define key terms and concepts associated with cephalometrics, including radiographic projections, landmarks, reference planes, angles, and tracings.	d- Diagnostic aids i. Cephalometrics		
6	1	• Students will be able to define the principles of panoramic radiography and its application in orthodontics.	ii. Orthopantomography iii. Other views		

		• Students will be able to identify the anatomical structures visualized on an orthopantomogram, including teeth, alveolar bone, maxilla, mandible, tempor omandibular joints (TMJs), sinuses, and other relevant landmarks			
7	1	• Students will understand the purpose and importance of study models in orthodontic diagnosis and treatment planning. • Students will be able to identify dental anomalies and malocclusions, such as crowding, spacing, rotations, and missing teeth, based on model analysis.	iv. Study models		
8	1	Students will understand the importance of intraoral and extraoral photography in documenting orthodontic diagnosis, treatment progress, and post-treatment results Students will understand the principles of 3D imaging technologies used in orthodontics, such as cone beam computed tomography (CBCT) an intraoral scanners.	v. Photography vi. 3D imaging		
9	1	• Students will understand the principles and goals of orthodontic treatment planning. • Students will be able to identify the various factors that influence treatment planning, such as patient age, severity of malocclusion, skeletal	e- Treatment planning		

		considerations, dental characteristics, and patient preferences. • Students will understand the different types of orthodontic appliances and their mechanisms of action.			
10	1	• Students will understand the diverse spectrum of medical conditions that can impact orthodontic treatment, including cardiovascular diseases, respiratory disorders, endocrine disorders, neurological conditions, autoimmune diseases, and mental health conditions. • Students will be able to recognize the potential risks and complications associated with orthodontic treatment in medically compromised patients	f- Treatment of Medically compromised patients		
11	1	• Common orthodontic indices, such as the Dental Aesthetic Index (DAI), Angle's Classification, Index of Orthodontic Treatment Need (IOTN), Peer Assessment Rating Index (PAR), and Index of Orthodontic Treatment Complexity (IOTC). • The purpose and clinical applications of each index. • The different components and scoring systems used in each	g- Orthodontic indices		

		index.			
12	1	• Define and explain the concept of space analysis in orthodontics. • Identify the different methods of space analysis, including direct measurement, Clark's discrepancy analysis, and Moyers' space planning method Utilize space analysis findings to explain crowding or spacing issues patients and discuss potential treatment options	Space analysis, Bolton's ratio		
13	1	• Define and explain the concept of teeth extraction in orthodontics and its potential therapeutic uses. • Identify the various indications for teeth extraction in orthodontic treatment, considering factors Recognize the contraindications f teeth extraction in orthodontics	Teeth extraction in orthodontics		
14	1	Define and explain the concept of serial extraction in orthodontics, describing its specific approach and rationale. Identify the indications for serial extraction and Recognize the potential limitations and contraindications of serial extraction	Serial extraction		
15	1	Define and explain the concept of a deep bite in orthodontics, including its different classifications (mild, moderate, severe)	Vertical and transverse problems: a. Deep bite		
16	1	Define and explain the concept of open bite in orthodontics, differentiating between anterior a posterior open bites	b. Open bite		
17	1	Define and differentiate between	c. Crossbite and scissors bite		

		crossbite and scissors bite Identify the various etiological fac that can contribute to crossbite an scissors bite			
18	1	Define and explain the concept of thee local factors and the treatmen all the : a. supernumerary and hypodontia b. Early loss of decidu teeth c. Retained teeth, 1delayed eruption, impaction, ankylosis d. Abnormal eruptive behavior e. La frenum	Treatment of common local factors: a. supernumerary and hypodontia b. Early loss of deciduous teeth c. Retained teeth, 1delayed eruption, impaction, ankylosis d. Abnormal eruptive behavior e. Large frenum		
19	1	• Define and differentiate between "bad oral habits" and normal developmental behaviors. • Identify the most common bad oral habits that can negatively impact tooth alignment and oral health	f. Bad oral habits		
20	1	Define and differentiate between t various aberrant positions of canir Identify the different etiological factors associated with aberrant canine positioning . Recognize th different treatment options availal for correcting aberrant canine positions,	Treatment of aberrant position of canines		
21	2	Define and differentiate between the three main Class I malocclusions (crowding, spacing, biprotrusion) , Recognize the various etiological factors associated with Class I malocclusions Recognize the different treatment options available for Class I malocclusions	Treatment of general factors: a. Class I treatment (crowding, spacing, biprotrusion) (method of space creation)		
22	1	Define and explain the characteristics of a Class II Division 1 (CL II Div 1) malocclusion Identify the various etiological factors	b. Class II div. 1 treatment		

		associated with CL II Div 1 Understand the different treatmen options available for CL II Div 1,			
23	1	Define and explain the characteristics of a Class II Division 2 (CL II Div 2) malocclusion Identify the various etiological factors associated with CL II Div 2	c. Class II div. 2 treatment		
24	1	Define and explain the characteristics of a Class III malocclusion Identify the various etiological factors associated with Class III, Understand the different treatmen options available for Class III	d. Class III treatment		
25	1	Define and differentiate between the different stages of periodontal disease Identify the various etiological factors associated with periodontal disease Recognize the different treatment options available for periodontal disease	Treatment of adults a- Periodontal problems		
26	1	• Define and explain the principles of orthognathic surgery as a treatment option for severe skeletal and dentofacial deformities. • Identify the various skeletal discrepancies for which orthognathic surgery is indicated	b- Orthognathic surgery		
27	2	Define and differentiate between the different types of cleft lip and palate • Understand the embryological basis for cleft lip and palate development, including the impact of environmental and genetic factors. • Recognize the potential consequences of cleft lip and	Cleft lip and palate		

		palate			
28	1	Grasp the fundamental principles of digital technologies used in orthodontics, Intraoral scanners: Cone beam computed tomography (CBCT) Software programs: Digital cephalometric analysis: 3D printing: Comprehend the advantages and limitations of digital technologies orthodontics	Digital orthodontics (digital approach in orthodontic diagnosis and treatment)		

150. Course Evaluation

15% Theory mid exam		% 40sum of degrees before final examination
4% quizzes	10 % theory	
2% seminars		
4% interaction during the school year		
10% Treating an orthodontic condition using removable braces	15% practical	
4% Fill out a medical sheet for orthodontic cases, number 4 (case sheet)		
1% delineation of head measurements Additional grades for dental impressions that require straightening, casting, and studying dental molds.		
25% final practical examination		60% final examination
35% final theory examination		

151. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
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 and references (scientific journals, reports...)	
Electronic References, Websites	

152. Course Name:
Pedodontics
153. Course Code:
DNK4-PD
154. Semester / Year:
fourth year
155. Description Preparation Date:
10-9-2023
156. Available Attendance Forms:
On campus
157. Number of Credit Hours (Total) / Number of Units (Total)
Theory 30 hours in 30 weeks Practical: 60 hours in 30 weeks Number of units: 4
158. Course administrator's name (mention all, if more than one name)
Name: Ali Hadi Fahad Email: alih.fahad@uokufa.edu.iq
159. Course Objectives

Course Objectives	• Understanding and assimilating theoretical and practical methods for treating all cases of children's dental infections. • Identify scientific methods and methods supported by means of explanation • How to identify baby and permanent teeth and the problems related to them.

160. Teaching and Learning Strategies	
Strategy	• Applying education based on individual differences in teaching pedodontics: The teacher can modify the educational content or teaching methods to meet the needs of different students. For example, a teacher can provide more support to students who are having difficulty understanding certain material. • Create a website that contains educational content about pedodontics, such as videos, presentations, and articles. Students can access this content anytime, anywhere.

161. Course Structure

Week	Hour	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Eruption of teeth , normal eruption process	pedodontics	Lectures	Weekly exams in the form of choices, seminars and discussion
2	1	Teething and difficult eruption	pedodontics		
3	1	Eruption haematoma , sequestrum ,ectopic eruption	pedodontics		
4	1	Epstein pearls, Bohn nodules, Dental lamina cysts, Shedding of the primary teeth, Mechanism	pedodontics		

		of resorption and shedding, Factors causes differences in time of eruption			
5	1	Systemic (disease) Factors which cause late eruption Deciduous Dentition Period, Ugly Duckling Stage	pedodontics		
6	1	Morphology of the primary teeth	pedodontics		
7	1	Normal morphology of all primary teeth and their clinical consideration	pedodontics		
8	1	Morphological differences between primary and permanent teeth	pedodontics		
9	1	Functions of primary teeth	pedodontics		
10	1	Dental caries; Definition and Classification	pedodontics		
11	1	Rampant dental caries, Early childhood caries,	pedodontics		
12	1	Restorative dentistry for children Isolation & maintenance of dry field and application of the rubber Dam	pedodontics		
13	1	Morphological consideration ,cavity preparation Cavity preparation on primary teeth,	pedodontics		
14	1	Restorative materials used on pediatric dentistry	pedodontics		
15	1	Matrices& retainers	pedodontics		
16	1	Chrome steel crowns, ART	pedodontics		
17	1	Treatment of deep caries	pedodontics		
18	1	Indirect pulp treatment	pedodontics		
19	1	Vital pulp therapy pulpotomy	pedodontics		
20	1	Non vital pulp therapy technique	pedodontics		
21	1	Reaction of pulp to various capping material	pedodontics		
22	1	Local anesthesia and pain control for children Type of space maintainer(indication	pedodontics		

			andcontraindication Type of space maintainer(indication andcontraindication Type of space maintainer(indication andcontraindication Type of space maintainer(indication andcontraindication			
23	1		Anesthetizing mandibular and maxillary teeth and soft tissue	pedodontics		
24	1		complications after a local anesthetic	pedodontics		
25	1		supplemental injection techniques	pedodontics		
26	1		Oral surgery for children, indication and contraindictions for extraction of primary teeth,	pedodontics		
27	1		technique for extraction of primary teeth	pedodontics		
28	1		extraction complications	pedodontics		
29	1		postoperative extraction complications, radiographic survey of teeth extracted	pedodontics		
30	1		Infections manifestation and management	pedodontics		

162. 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.
First semester 12.5 (daily exams + semester exam + seminar + attendance)
Mid-year 15
Second semester 12.5
Final exam: 35 theoretical
25 practical

163. Learning and Teaching Resources

Required textbooks (curricular books, if any)	McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier Pediatric Dentistry Damle 3rd ed. 2009 Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delh Hand book of pediatric dentistry (Cameron) mosby Elsevier/4th edition/2013
Main references (sources)	Pediatric Dentistry A clinical approach/ Göran Koch, Sven Poulsen/ Wiley Blackwell Publishing Ltd/ 2nd ed./ 2009

	Principles and practice of pedodontics /Arathi Rao Jaypee/second edition2008 Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

164. Course Name:	
Pedodontics	
165. Course Code:	
DNK5-PD	
166. Semester / Year:	
Fifth year	
167. Description Preparation Date:	
10-9-2023	
168. Available Attendance Forms:	
On campus	
169. Number of Credit Hours (Total) / Number of Units (Total)	
Theory 30 hours in 30 weeks Practical: 90 hours in 30 weeks Number of units: 5	
170. Course administrator's name (mention all, if more than one name)	
Name: Khamaal Ibrahim Muhsin Email: d.khamaal1977@gmail.com	
171. Course Objectives	
Course Objectives	• Providing students with basic scientific knowledge about pediatric dentistry. • Keeping up with the latest scientific developments in pediatric dentistry. • Training students to apply pediatric dentistry in a practical way. • Encouraging students to pursue scientific research in the field of pediatric dentistry.
172. Teaching and Learning Strategies	
Strategy	• Applying education based on individual differences in teaching pediatric dentistry: The teacher can modify the educational content or teaching methods to meet the needs of different students. For example, a teacher can provide more support to students who are having difficulty understanding certain material. • Game-based learning: where students learn by participating in fun activities or competitions. • Create a website that contains educational content about pediatric dentistry, such as

	videos, presentations, and articles. Students can access this content anytime, anywhere.

173. Course Structure

Week	Hour	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	- Treatment planning the diagnostic method. -Clinical examination	Examination of the mouth and other relevant structures.	Lectures	Weekly exams in the form of choices, seminars and discussion
2	1	-Soft tissue examination -Hard tissue examination -Radiological examination -Treatment priorities	Intra oral examination		
3	1	-Prevalence of dental trauma -Trauma to the face -history of the injury -clinical examination	Management of Trauma to the Teeth and Supporting Tiss		
4	1	-Visual Examination -Digital examination -Radiographical Examination -Emergency -Treatment of Soft Tissue Injury	Methods of Clinical Examination		
5	1	-Crown Craze and Crack -Bonded Resin Restoration -Treatment of Vital Pulp Exposures -Apexification -Regenerative Endodontic Procedures	Management of Trauma to the Teeth and Supporting Tissues 2		
6	1	-intrusion -extrusion -lateral luxation -avulsion -replantation	Displacement of primary and permanent anterior teeth		
7	1	-behaviors of pedodontic child development -anxiety and fear -factors influencing child's	Management of Children Behaviors		

		behavior			
8	1	-Strategies Of The Dental Team -Fundamentals Of Behavior Guidance -Communicating With Children	Classifying children's cooperative behavior		
9	1	-Behavior Shaping -Retraining -Parent-Child Separation	Children' Managements Techniques		
10	1	-Classification Of Root Fractures -Vertical Root Fracture -Oral Burns -Types Of Fracture	Management of root fractures		
11	1	-Indications for teeth extractions -Extraction technique -Impacted teeth	Oral Surgery for Pediatric Patients		
12	1	-The head and neck infections -Mucoceles and ranula -Facial injury	Intraoral Soft Tissue And Hard Tissue Prosidure		
13	1	Premature Loss Of Deciduous Teeth	Types Of Space Maintainers		
14	1	-Four stages of anesthesia -Steps in hospital procedure	General anesthesia		
15	1	-The goals of sedation for the pediatric patient -Routes Of Drug Administration	Pharmacological management of behavior		
16	1	-treatment of aggressive periodontitis -Gingival recession -Extrinsic Stains And Deposits On Teeth Calculus	Localized Juvenile Periodontitis		
17	1	-First Dental Visit -Home Dental Care -Diet And Nutrition	Dental Problems of Children with Special Health Care Needs		
18	1	-Nance Analysis	Arch Length		

		-Moyer's Mixed Dentition Analysis -Tanaka and Johnston Analysis.	Analysis		
19	1	-Intellectual Disabled -Down syndrome -Cerebral palsy -Epilepsy	Intellectual Disabled		
20	1	-Acquired Immunodeficiency Syndrome -Leukemia	Viral Hepatitis		
21	1	-Endocrinopathies -Diabetes Mellitus -Renal disease	Management of Children with Systemic Diseases		
22	1	-Pulpal Hyperemia -Internal hemorrhage -Internal resorption -Pulpal necrosis -Hypocalciflcation and Hypoplasia -Reparative Dentine Production	Reaction Of The Tooth To Trauma		
23	1	-Planning For Space Maintenance -Requirement of a space maintainer	Management Of Space Problems		
24	1	-Type Of Gingivitis -Recurrent Aphthous Ulcer	Gingivitis And Periodontal Diseases		
25	1	-Gingival Diseases Modified By Systemic Factors -Gingival lesions Of Genetic Origin -Periodontal Diseases In Children	Chronic Nonspecific Gingivitis		
26	1	-Treat of deep caries -Direct pulp capping	Pulp treatment		
27	1	-Indications of pulpotomy	Pulpotomy		

		-Contraindications of pulpotomy -clinical procedure			
28	1	-Indications of Pulpectomy -Contraindications of Pulpectomy -clinical procedure -Complete Pulpectomy	Pulpectomy		
29	1	- Enteral route - Intramuscular route - The IV route - inhalational route	Types of general anesthesia		
30	1	-Define ART -types, uses and properties.	Atraumatic restorative technique		

174. Course Evaluation

15% Theory mid exam		% 40sum of degrees before final examination
8 % quizzes	10 % theory	
2% interaction during the school year		
10% clinical requirements	15% practical	
3 % Fill out a medical sheet for pedodontics cases (case sheet)		
2% seminars		
25% final practical examination		60% final examination
35% final theory examination		

175. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	• McDonald and Avery's Dentistry for the Child and Adolescent Pediatric Dentistry: A Clinical Approach
Recommended books and references (scientific journals, reports...)	• Handbook of Clinical Techniques in Pediatric Dentistry Essentials of Pediatric Dentistry
Electronic References, Websites	

Course Description Form

176.	Course Name:
Community	
177.	Course Code:
DNK3-CM	
178.	Semester / Year:
third year	
179.	Description Preparation Date:
10-9-2023	
180.	Available Attendance Forms:
On campus	
181.	Number of Credit Hours (Total) / Number of Units (Total)
Theory 30 hours in 30 weeks Practical: 60 hours in 30 weeks Number of units: 4	
182.	Course administrator's name (mention all, if more than one name)
Name: Ali Faisal Madhloum Email: ali.faisal@alkafeel.edu.iq	
183.	Course Objectives
Course Objectives	• Providing students with basic scientific knowledge about community dentistry. • Developing students' skills in understanding oral health. • Qualifying students with the clinical skills necessary to provide oral care effectively and effectively • Encouraging students to pursue scientific research in the field of community dentistry
184.	Teaching and Learning Strategies
Strategy	• Applying education based on individual differences in teaching community dentistry: The teacher can modify the educational content or teaching methods to meet the needs of different students. For example, a teacher can provide more support to students who are having difficulty understanding certain material. • Game-based learning: where students learn by participating in fun activities or competitions. • Create a website containing educational content about community dentistry, such as videos, presentations, and articles. Students can access this content anytime, anywhere.

185. Course Structure

Week	Hour	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Community Water Fluoridation. Fluoride levels in drinking water and their correlation with dental caries rates. Oral Health Promotion Programs: Designing and evaluating community-	Dental Public Health	Lectures	Weekly exams in the form of choices, seminars and

		based oral health promotion initiatives. Assessing the effectiveness of school-based oral health programs. Epidemiology of Dental Diseases: Prevalence and incidence of dental. Access to Dental Care:			discussion
2	1	Impact of Socioeconomic Factors on Oral Health: Analyzing the relationship between income, education, and oral health outcomes. Exploring interventions to reduce oral health disparities related to socioeconomic factors. Community-Based Oral Health Interventions: Assessing the effectiveness of community outreach programs in promoting oral health. Developing and implementing sustainable community-based prevention strategies. Oral Health Literacy:	Dental health education.		
3	1	Assessment of Dental Treatment Needs: Developing methodologies for assessing the oral health treatment needs of different populations. Utilizing data to prioritize and plan dental care services based on identified needs. Factors Influencing Dental Care Seeking Behavior: Investigating social, cultural, and economic factors affecting individuals' decisions to seek dental care. Analyzing barriers and facilitators for accessing dental services.	Dental need and demand		

4	1	Dental Workforce Trends: Analyzing the current trends in the supply and demand for dental professionals. Examining geographical variations in dental manpower distribution. Dental Workforce Education: Assessing the impact of dental education programs on the workforce. Exploring the challenges and opportunities in dental education.	- Dental Manpower		
5	1	Dental Hygiene Practices: Assessing oral hygiene habits, including toothbrushing frequency, flossing, and mouthwash use. Identifying factors influencing adherence to recommended oral hygiene practices. Prevalence of Oral Diseases: Conducting a survey to determine the prevalence of common oral conditions such as cavities, gum disease, and oral cancers. Analyzing demographic and lifestyle factors associated with these conditions.	Oral health survey.		
6	1	Caries Indices: Comparative analysis of different caries indices (e.g., DMFT, DMFS, ICDAS) in assessing dental caries prevalence. Evaluation of the effectiveness of caries indices in different age groups. Periodontal Indices: Assessment of periodontal health using indices like the Community Periodontal Index of Treatment Needs (CPITN) or the Periodontal Screening and Recording (PSR).	Dental indices		
7	1	Comparative Analysis of Caries Indices: Evaluate and compare the effectiveness of commonly used caries	Indices of dental caries.		

		indices such as DMFT (Decayed, Missing, Filled Teeth) and DMFS (Decayed, Missing, Filled Surfaces) in different populations or age groups.			
8	1	Caries Indices and Nutrition: Investigate the relationship between dietary habits, nutritional intake, and dental caries indices, emphasizing the role of sugar consumption. Epidemiological Surveys Using Caries Indices: Conduct epidemiological surveys using caries indices to assess the overall oral health status of a population and inform public health interventions.	Indices of dental caries.		
9	1	Comparative Analysis of Periodontal Indices: Evaluate and compare the effectiveness of commonly used periodontal indices, such as the Community Periodontal Index of Treatment Needs (CPITN), Periodontal Screening and Recording (PSR), and the Periodontal Disease Index (PDI.(Development and Validation of New Periodontal Indices: Explore the development and validation of new indices for assessing periodontal diseases, incorporating both clinical and radiographic parameters.	Indices of periodontal diseases		
10	1	Effectiveness of Community Water Fluoridation Programs: Evaluate the impact and effectiveness of community water fluoridation programs in reducing dental caries at the population level. Oral Health Promotion in Schools: Assess the effectiveness of oral health promotion programs implemented in schools, including preventive	Dental public health care		

		measures, education, and dental screenings.			
11	1	Scope of Practice for Dental Auxiliaries: Evaluate and compare the scope of practice for dental auxiliaries in different countries or regions, considering variations in regulations and professional responsibilities. Effectiveness of Dental Hygienists in Preventive Care: Assess the impact of dental hygienists in providing preventive oral health care services, including prophylaxis, fluoride treatments, and patient education.	Dental auxiliaries.		
12	1	Effectiveness of Water Fluoridation Programs: Evaluate the effectiveness of water fluoridation programs in reducing the prevalence and severity of dental caries in different populations. Optimal Fluoride Levels in Drinking Water..	Fluoridation as a public health measure		
13	1	Optimal Fluoride Concentrations for Caries Prevention: Investigate the ideal concentration of fluoride in drinking water, toothpaste, and other sources to maximize caries prevention while minimizing the risk of dental fluorosis. Fluoride and Early Childhood Caries:	Fluoride and dental caries.		
14	2	Ergonomics in Dental Practice: Investigate the impact of ergonomic factors on the health and well-being of dental professionals, including musculoskeletal disorders and strategies for ergonomic improvements in the	Occupational hazards in dentistry		

		dental workspace. Radiation Exposure in Dentistry:			
15		Mid year exam	Mid year exam		
16	1	Epidemiology of Emerging Infectious Diseases: Investigate the epidemiology of emerging infectious diseases, monitoring their spread, assessing risk factors, and contributing to preparedness and response efforts.	Epidemiology		
17	1	Cohort Studies in Epidemiology: Assess the strengths and limitations of cohort study designs in epidemiological research, examining their applications in investigating causal relationships and predicting health outcomes. Case-Control Studies and Nested Case-Control Designs:	Methods of epidemiology		
18	1	Prevalence and Severity of Dental Caries in Different Age Groups: Investigate the prevalence and severity of dental caries in children, adolescents, adults, and elderly populations, considering variations in risk factors and oral health behaviors. Trends in Dental Caries Over Time:	Epidemiology of dental caries		
19	1	Definition o Gingival index (Loe and Silness) o Plaque index (Silness and Loe) o Plaque index (O'leary) o Plaque index (Quigely Hein) o Probing pocket depth o Clinical attachment loss o Basic Periodontal Examination (BPE) o Modified Gingival Index	Periodontal indices		

20	1	Epidemiology of HPV-Related Oral Cancer: Explore the epidemiology of oral cancers associated with HPV infection, including trends, demographic patterns, and the impact of HPV vaccination on oral cancer prevention. Occupational Exposures and Oral Cancer Risk:	Epidemiology of oral cancer		
21	1	The epidemiology of malocclusion involves studying the distribution and determinants of improper alignment of teeth and jaws within populations. Here are some potential research topics related to the epidemiology of malocclusion	Epidemiology of malocclusion		
22	1	Longitudinal Data Analysis Techniques: Investigate statistical methods for analyzing longitudinal data in health studies, addressing challenges such as repeated measurements, missing data, and modeling individual trajectories over time. Survival Analysis in Epidemiological Studies	Biostatistics		
23	1	Effective Data Visualization Techniques: Explore best practices and techniques for creating clear and effective data visualizations, including charts, graphs, and interactive dashboards. Storytelling with Data:	Data presentation		
24	1	Comparison of Mean, Median, and Mode in Skewed Distributions: Investigate the behavior and appropriateness of mean, median, and mode in different types of skewed	Measures of central tendency and dispersion s		

		distributions, exploring scenarios where one measure may be more suitable than others. Weighted Measures of Central Tendency:			
25	1	Air Quality and Respiratory Health: Investigate the relationship between air pollution, particulate matter, and respiratory diseases, considering both short-term and long-term effects on human health. Water Quality and Public Health:	Environment and health.		
26	1	nformed Consent in Dental Practice: Investigate the process of obtaining informed consent in dental procedures, exploring ethical considerations, patient autonomy, and the communication of risks and benefits. Patient Confidentiality and Privacy in Dental Records:	Forensic Dentistry		
27	1	Identification of Human Remains through Dental Records: Investigate the role of dental records in the post-mortem identification of individuals, exploring the accuracy and reliability of dental records in forensic contexts. Age Estimation Using Dental Methods:	Forensic Dentistry		
28	1	Oral Health and Quality of Life in Older Adults: Investigate the impact of oral health on the overall quality of life in older adults, considering factors such as chewing ability, speech, and social interactions.	Geriatric Dentistry		

		Dental Care Access and Utilization in Geriatric Populations:			
29	1	ole of Ultraviolet (UV) Light in Dental Infection Control: Investigate the efficacy of UV light as a disinfection method in dental settings, exploring its potential for reducing microbial contamination on surfaces and in the air. Use of Antiseptic Mouthrinses in Infection Control:	Infection control		
30	1	fficacy of Personal Protective Equipment (PPE) in Infection Control: Investigate the effectiveness of various PPE components, such as masks, gloves, gowns, and face shields, in protecting healthcare workers and preventing the transmission of infectious agents. Barrier Techniques for Hand Hygiene Compliance	Personal barrier techniques		

186. 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.
Theory 15% (semester exam)
Practical 10% (weekly exams + seminar + attendance)
Mid-year 15
Final exam: 35 theoretical
25 practical

187. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Essentials of preventive and community dentistry by Peter, 2003. Essential Dental Public Health 2nd ed by Blanad D, Paul B, Elizabith T, Richard W, 2013. Clinical Textbook of Dental Hygiene and Therapy, Robert Ireland, 2006.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	