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

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.

<u>Course Description</u>: 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.

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

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

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

<u>**Curriculum Structure**</u>: 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.

<u>Teaching and learning strategies</u>: 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

Signature: Scientific Associate Name: Lec. Dr Mohammed Hassan Date:2024

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 Credit units Percentage Reviews*												
	Courses											
College Requirements	44	225	100%	Basic								
Summer Training	2		100%	Basic								

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

	Program Description													
Cred	it Hours			N7										
Practice	Theory	Course little	Course Code	Year										
2	1	التشريح العام (human anatomy)	DNK1-HA											
	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	First-year										
2	2	الكيمياء الطبية (medical chemistry) الكيمياء الطبية (DNK1-CH											
2	2	الفيزياء الطبية (medical physics)	DNK1-PH											
2	2	(medical biology) الاحياء الطبية (DNK1-BI											
	1	اللغة العربية	DNK1-Ar											

Program Description												
Credit	Hours	Course Title	Course	Voar								
Practice	Theory	Course rule	Code	1 Cal								
2	1	المادة السنية (dental) (material	DNK2- DM									
4	1	صناعة الاسنان (prosthodontics)	DNK2- PR									
2	2	الكيمياء الحياتية (biochemistry)	DNK2- CH	•								
2	2	لانسجة العامة (general histology)	DNK2- GP									
2	2	فسلجة عامة general) (physiology	DNK2- GP	Second- year								
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	on	
Credit	t Hours	Course Title	Course	Vear
Theory	Theory	Course Thie	Code	I cai
2	2	احياء مجهرية	DNK3-	
	L	(microbiology)	MB	
2	ſ	علم الادوية	DNK3-	
	L	(pharmacology)	PH	
		طب مجتمع	DNK3_	
	1	community)	CM	
		(dentistry		
4		معالجة اسنان	DNK3-	
	2	conservative)	OP	
		(dentistry		Third-vear
2	1	اشعة المفم	DNK3-	1 mm u-y car
	1	(dental radiology)	RD	
2	1	الامراض العامة	DNK3-	
	1	(general pathology)	GP	-
2	1	جراحة الفم	DNK3-	
	1	(oral surgery)	OS	-
2	1	صناعة الاسنان	DNK3-	
	1	(prosthodontics)	PR	
	1	اخلاقيات طب الإسنان	DNK3-	
	1	Dental ethics	DA	

	Program Description												
Credit	t Hours	Course Title	Course	Voar									
Theory	Theory	Course Thie	Code	1 Cal									
2	1	الطب العام (general	DNK4-										
	L	(medicine	GM										
2	1	الجراحة العامة	DNK4-										
	l	(general surgery)	GS										
4	1	جراحة الفم	DNK4-										
	I	(oral surgery)	OS										
4		معالجة اسنان	DNIZA										
	1	conservative)											
		(dentistry	Or										
4	1	امراض الفم	DNK4-	Fourth-									
	I	(oral pathology)	OP	year									
4	1	تقويم الاسنان	DNK4-										
	I	(orthodontic)	OR										
	1	طب استنان الاطفال	DNK4-										
	L	(pedodontic)	PD										
4		امراض و جراحة ما حول	DNKA										
	1	الاستان	DINK4- DE										
		(periodontics)	FE										
4	1	صناعة الاسنان	DNK4-										
	1	(prosthodontics)	PR										

Program Description												
Credit	t Hours	Course Title	Course	Voar								
Theory	Theory	Course Thie	Code	1 Cal								
4	1	معالجة اسنان conservative) (dentistry	DNK5- OP									
4	1	طب الفم (oral medicine)	DNK5- OM									
4	1	جراحة الفم (oral surgery)	DNK5- OS									
4	1	طُب اسنان الاطفال (paedodontics)	DNK5- PD									
4	1	طب الاسنان الوقائي (preventive)	DNK5- PV	Fifth-year								
4	1	صناعة الاسنان (prosthodontics)	DNK5- PR									
4	1	تقويم الاسنان (orthodontics)	DNK5- OR									
4	1	امرأض 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	Specializ	ation	Special Requirement (if applicable	s/Skills)	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															
							Requ	ired p	orogra	m Lea	rning	outcon	nes		
Year/Level	Course	Course Name	Basic or	Knov	wledge			Skil	s			Ethics	5		
	Couc		optional	A1	A2	A3	A4	B1	B2	B 3	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 الآنسان و الديمقراطية human right and	basic	×	×			×			×		×	×	

		democracy(
		الكيمياء الطبية (basic	×	×		×	×	×	×	×	×	×	
	DNK1-CH	medical												
		chemistry (
		الفيزياء الطبية (basic	×	×		×	×	×	×	×	×	×	×
	DNK1-PH	medical												
		physics(
	DANKA DI	الأحياء الطبيه	basic	×	×		×	×	×		×	×	×	×
	DNK1-BI)medical												
		biology (
	DNK1-Ar	اللغة العربية	basic	×	×		×	×	×	×	×	×	×	×
Second Year		المادة السنية (basic	×	×		×	×	×	×	×	×	×	×
	DNK2-DM	dental												
		material (
		صناعة الاسنان (basic	×	×		×	×	×	×	×	×	×	×
	DNK2-PR	prosthodontics												
		الكيمياء الحيانية	basic	×	×		×	×			×	×	×	×
	DNK2-CH) biocnemistry												
		الانسجة العامة	basic	×	×		×	×	×	×	X	×	×	
	DNK2-GP)general												

		histology(
		فسلجة عامة	basic	×	×		×			×		×	×	
	DNK2-GP)general												
		physiology(
		انسجة الفم وعلم	basic	×	×		×	×	×	×	×	×	×	
		الاجنة												
	DINK2-011)oral												
		histology (
		التشريح العام	basic	×	×		×	×	×	×	×	×	×	×
	DNK2-GA)anatomy (
		جرائم حزب البعث	basic	×	×		×	×	×		×	×	×	×
	DNK2-BC	Ba`ath party												
		crimes												
Third Year		احياء مجهرية	basic	×	×		×	×	×	×	×	×	×	X
	DNK3-MB													
		microbiology(
		علم الادوية	basic	×	×		×	×	×	×	×	×	×	×
)												
	DNK3-PH	pharmacology												
		(
	DNK3-CM	طب مجتمع	basic	×	×		×	×			×	×	×	×
) community												

		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 الغم)oral surgery(basic	×	×		×	×	×	×	×	×	×	×
	DNK3-PR	صناعة الاسنان prosthodontic) s(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 (المعروب المعرم (المعرم (المعرف)	basic	×	×		×	×			×	×	×	×
		معالجة اسنان	basic	×	×		×	×	×	×	×	×	×	
	DNK4-OP)conservative dentistry(
	DNK4_OP	امراض الغم Inral	basic	×	×		×			×		×	×	
	DINK4-OI	pathology(
	DNK4-OR	تقويم الاسنان) orthodontic	basic	×	×		×	×	×	×	×	×	×	
	DNK4-PD	طب اسنان الاطفال	basic	×	×		×	×	×	×	×	×	×	×
		امراض و جراحة ما	basic	×	×		×	×	×		×	×	×	×
	DNK4-PE	حون الأستان)periodontics(
	DNK4-PR	صناعة الاسنان) prosthodontics	basic	×	×		×	×	×	×	×	×	×	×
Fifth Year	DNK5-OP	معالجة اسنان conservative)	basic	×	×		×	×	×	×	×	×	×	×

		dentistry(
		طب الفم	basic	×	×		×	×	×	×	×	×	×	×
D	NK5-OM) oral												
		medicine(
	NK5-0S	جراحة الفم	basic	×	×		×	×			×	×	×	×
	1113 -05) oral surgery(
		طب اسنان الاطفال	basic	\times	×		×	×	×	×	×	×	×	
D	NK5-PD)												
		paedodontics(
		طب الاسنان الوقائي	basic	\times	×		×			×		×	×	
D	NK3-PV)preventive(
		صناعة الاسنان	basic	Х	×		X	×	×	×	×	×	×	
D	DNK5-PR)prosthodontic												
		s (
ית		تقويم الاسنان	basic	Х	×		×	×	×	×	×	×	×	×
	MS-OK)orthodontics (
		امراض و جراحة ما	basic	X	×		×	×	×		×	×	×	×
D	DNK5-PE	حول الاسنان												
)periodontics (
	DNK-5GP	مشروع التخرج	basic	×	×		×	×	×	×	×	×	×	×
D		Graduation												
		project												

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:
 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

<u>References:</u> <u>Main references</u>:

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)

<u>Course curriculum/theoretical part:</u>

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	ТМЈ
15	Salivary glands
16	Teeth shedding

<u>Course</u>	<u>curriculum/practical part:</u>
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
1	Pulp
0	
1	Periodontal ligament
1	

1	Bone
2	
1	Oral mucosa
3	
1	TMJ
4	
1	Salivary glands
5	
1	Teeth shedding
6	

<u>:References</u> 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	Objectives of the course:
diagnose x-ray images, now to operate x-ray machines correctly, and	
how to dealing with radiation risks.	
The general characteristics of x-ray and their effect on Living organisms	course description:
and ways to prevent their damage.	
<u>30</u>	Number of theoretical hours:
<u>60</u>	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.razzag@alkafeel.edu.ig	University email address:
07816401877	Mobile phone number:
	(WhatsApp)
	(· · · · · · · · · · · · · · · · · · ·

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. 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, radiation protection for associated person, regulatory measurements, monitoring procedures.
14	Hazards, effects of radiation on living tissue, ionization, direct and indirect 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 and indirect 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	Deporamia radiography					
10	Fanoranne radiography.					
11	Normal radiographic anatomical landmarks.					
10 11 12	Normal radiographic anatomical landmarks. Normal radiographic anatomical landmarks.					
10 11 12 13	Panoraline radiography. Normal radiographic anatomical landmarks. Normal radiographic anatomical landmarks. Common diseases of teeth and surrounding tissues.					
10 11 12 13 14	Panoraline radiography. Normal radiographic anatomical landmarks. Normal radiographic anatomical landmarks. Common diseases of teeth and surrounding tissues. Computerized Tomography (CT)					

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

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Indicidition </td <td>Shor</td> <td>t, semester, mid-year and</td> <td>A theoretical lecture using</td> <td>Fibro-osseous lesions</td> <td>2</td> <td>8</td>	Shor	t, semester, mid-year and	A theoretical lecture using	Fibro-osseous lesions	2	8				
Short, semester, mid-yearPower PointDevelopmental29Short, semester, mid-year and final examsA theoretical lecture using Power PointDevelopmental disturbances of orofacial rejoin210Short, semester, mid-year and final examsA theoretical lecture using Power PointDevelopmental disturbances of orofacial rejoin210Short, semester, mid-year and final examsA theoretical lecture using Power PointBenign Bone neoplasms211Short, semester, mid-year and final examsA theoretical lecture using Power PointMalignant bone neoplasms212Short, semester, mid-year and final examsA theoretical lecture using Power PointMalignant bone neoplasms212Evaluation methodA theoretical lecture using Power PointDevelopmental Cysts of the jaw213	Shor	rt somester mid voor	A theoretical lecture using	Developmental	2					
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Short, semester, inid-year and final examsA theoretical lecture using Power PointDevelopmental disturbances of orofacial rejoin2Short, semester, mid-year and final examsA theoretical lecture using Power PointBenign Bone neoplasms211Short, semester, mid-year and final examsA theoretical lecture using Power PointMalignant bone neoplasms211Short, semester, mid-year and final examsA theoretical lecture using Power PointMalignant bone neoplasms212Evaluation methodA theoretical lecture using Power PointDevelopmental Cysts of the jaw213	C1		A theoretical lecture using	allecture using Demolecture us						
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Short, semester, mid-year and final examsA theoretical lecture using Power PointBenign Bone neoplasms2 11Short, semester, mid-year and final examsA theoretical lecture using Power PointMalignant bone neoplasms2 12Evaluation methodA theoretical lecture using Power PointDevelopmental Cysts of the jaw2 12		and final exams		disturbances of		10				
Short, semester, mid-year and final examsA theoretical lecture using Power PointBenign Bone neoplasms2 11Short, semester, mid-year and final examsA theoretical lecture using Power PointMalignant bone neoplasms2 12Evaluation methodA theoretical lecture using Power PointDevelopmental Cysts of the jaw2 12	orofacial rejoin									
and final examsPower PointneoplasmsProver PointShort, semester, mid-year and final examsA theoretical lecture using Power PointMalignant bone neoplasms2 12Evaluation methodA theoretical lecture using Power PointDevelopmental Cysts of the jaw2 13	Shor	rt, semester, mid-year	A theoretical lecture using	Benign Bone	2	11				
Short, semester, mid-year and final examsA theoretical lecture using Power PointMalignant bone neoplasms2 12Evaluation methodA theoretical lecture using Power PointDevelopmental Cysts of the jaw2		and final exams	rower rollit	neoplasms		11				
and final examsPower Pointneoplasms12Evaluation methodA theoretical lecture using Power PointDevelopmental Cysts of the jaw213	Shor	rt, semester, mid-year	A theoretical lecture using	Malignant bone	2	12				
Evaluation methodA theoretical lecture using Power PointDevelopmental Cysts of the jaw213		and final exams	Power Point	neoplasms		12				
Power Point of the jaw 13		Evaluation method	A theoretical lecture using	Developmental Cysts	2	12				
			Power Point	of the jaw		15				

Short, semester, m final exam	id-year and ms	A the	eoretical lecture using Power Point	odontogenic cysts		2	14
Short, semester, mid-year and final exams		A the	eoretical lecture using Power Point	Benign Odontogenic tumors		2	15
Short, semester, m final exam	id-year and ms	A the	eoretical lecture using Power Point	Malignant odontogeni tumours	c	2	16
Short, semester, m final exa	id-year and	A the	eoretical lecture using Power Point	Oral mucosal lesions		2	17
Short, semester, m final exam	id-year and	A theoretical lecture using Power Point		Vesiculo-bulbous lesions		2	18
Short, semester, m final exam	id-year and ms	A theoretical lecture using Power Point		Oral Premalignant lesions		2	19
Short, semester, m final exag	Short, semester, mid-year and final exams		eoretical lecture using Power Point	Oral ulcerative lesion	S	2	20
Short, semester, m final exam	Short, semester, mid-year and final exams		eoretical lecture using Power Point	Diseases of salivary glands		2	21
Short, semester, mid- year and final exams lecture using Power Point		ical sing pint	tumors of s	salivary glands	2		22
Short,	A theoretical	White lesions and red lesions	2				
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semester, mid-	lecture using			22			
year and final	Power Point			23			
exams							
Short,	A theoretical	Benign soft tissue tumors and tumor	2				
semester, mid-	lecture using	like lesions.		24			
year and final	Power Point			24			
exams							
Short,	A theoretical	Oral cancer	2				
semester, mid-	lecture using			25			
year and final	Power Point			25			
exams							
Short,	A theoretical	Bone diseases (Genetic diseases,	2				
semester, mid-	lecture using	metabolic diseases)		26			
year and final	Power Point			26			
exams							
Short,	A theoretical	Pigmented oral lesions	2				
semester, mid-	lecture using			27			
year and final	Power Point			27			
exams							
Short,	A theoretical	Connective tissue neoplasms	2				
semester, mid-	lecture using	-		29			
year and final	Power Point			28			
exams							
Short,	A theoretical	Hematopoietic malignancies	2				
semester, mid-	lecture using			20			
year and final	Power Point			29			
exams							
Short,	A theoretical	T.M.J. pathology	2				
semester, mid-	lecture using			20			
year and final	Power Point			50			
exams							

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 fi 10% Annual practical endeavor: 4% practical semester exam 2% attendance and interaction	%30 Theoretical annual quest nal exam %35 10% Annual practical endeavor: 4% practical semester exam 2% attendance and interaction 4% in- laboratory seminar	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. Practical part 35%
Pulp pathology			1. Learni	ing and teaching resources .11
Periapical			Required	textbooks (methodology, if any)
osteomyltis	Oral and maxillofacial pathology. Brad Neville, Douglas Damm Allen and Jerry Bouquet. 4 the edition.	Ca 20		Main references (sources)

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

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
الاسم: م.م على فيصل مظلوم الأيميل: ali.faisal@alkafeel.edu.ig
12 .Course objectives
•Providing students with basic scientific knowledge about gum diseases Objectives of the
•Developing students' skills in treating various gum disease cases. study subject
•Training students to treat cases practically.
•Encouraging students to pursue scientific research in the field of g
diseases.
12. Teaching and learning strategies
•Applying education based on individual differences in teaching periodontal disease: strategy
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.

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 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 iii- 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 iii- 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-implant tits	3	7

disease	pathogenesis		
	o Mechanisms of		
	pathogenicity		
	o Histopathology of		
	periodontal disease:		
	<i>i- Clinically healthy</i>		
	gingival tissues		
	ii- Histopathology of		
	gingivitis and		
	periodontitis.		
	• The initial lesion		
	The early lesion		
	• The established lasion		
	• The advanced lesion		
	- The auvancea lesion		
	o inflammalory		
	responses in the		
	periodontium:		
	<i>i- Microbial virulence</i>		
	factors		
Etiology of periodontal	Dental plaque biofilm	3	9
disease and risk factors	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		
	nellicle		
	o Initial		
	o Iniliai adhasion/attachmont of		
	h a staria		
	o Colonization and		
	plaque maturation		
	- Factors affecting		
	supragingival dental		
	plaque formation		
Microbiologic specificity	- Traditional nonspecific	3	10
of periodontal	plaque hypothesis		
diseases and dentin	- Specific plaque		
bonding	hypothesis		
	- Updated nonspecific		
	plaque hypothesis		
	- Ecologic plaque		
	hypothesis		
	- Keystone Pathosen		
	Hypothesis		
Dontal calculus	- Clinical appearance	3	11
Deniai caicuius	- Cunical appearance	5	
	(Supragingival and		
	Subgingival		
	Calculus)		
	- Calculus formation:		
	o Theories of calculus		
	formation		

		the etiology and pathogenesis of		
		severity of periodontal diseases: i- Gingivitis ii- Periodontitis o Effects of smoking on		
	<i>Etiology of periodontal</i> <i>disease and risk factors</i>	- Smoking and Periodontal Disease o Effects of smoking on the prevalence and	3	16
	Mid year exa	m Smolting and	2	16
		iii- Role of toll-like receptors in periodontitis		
		acid/peptidoglycan recognition		
		ii- Toll-like receptor-2– lipoprotein/lipoteichoic		
		1- 1011-11Ke receptor-4– lipopolysaccharide		
		molecular patterns o Toll-like receptors:		
		interactions o Microbe-associated		
	Etiology of periodontal disease	- Molecular biology of host–microbe	3	14
		Local predisposing factors		
		ii- Non-modifiable risk factors		
		o Systemic risk factors: i- Modifiable risk factors		
		o Definitions of risk factors		
	Etiology of periodontal disease	Risk factors for periodontal diseases:	3	13
		- Prevention Treatment approaches		
		- The mechanisms of tooth discoloration		
		o Internalized discoloration		
		o Intrinsic discoloration o Extrinsic discoloration		
		discoloration:		
		perception		
	Dental stain	surfaces and implants - Color and color	3	12
		o Organic content - Attachment to tooth		
		o Organic content		

	disease:		
 	i- Microbiology		
Impact of periodontal	- Focal infection theory	3	17
infection on systemic	revisited		
health	- Subgingival		
	environment as a		
	reservoir for bacteria		
	- Periodontal disease,		
	coronary heart disease,		
	and atherosclerosis:		
	o Ischemic heart disease		
	o Atherosclerosis		
	Pariodontal disease and		
	- 1 enouoniai aisease ana		
	- Periodontal disease and		
	diabetes mellitus		
Impact of periodontal	Periodontal disease and	3	18
infection on systemic	asthma		
health	Periodontal disease and		
	pregnancy outcome		
	- Periodontal disease and		
	chronic obstructive		
	nulmonary disease		
	Pariodontal disease and		
	- Ferioaoniai aisease ana		
	acute respiratory		
	infections		10
Periodontal indices	Definition	3	19
	o Gingival index (Loe		
	and Silness)		
	o Plaque index (Silness		
	and Loe)		
	o Plaque index (O'leary)		
	o Plaque index (Ouigely		
	Hoin)		
	o Probing pocket depth		
	loss		
	o Basic Periodontal		
	Examination (BPE)		
	o Modified Gingival		
	Index		
The periodontal pocket	Define dental impression	3	20
	materials types, uses and		
	Classification		
	- Clinical features		
	- Pathogenesis		
	- Histonathology		
	- Instoputiology.		
	o Bacieriai invasion		
	o microtopography of the		
	gingival wall		
	o Periodontal pockets as		
	healing lesions.		
The periodontal pocket	Periodontal disease	3	21
	activity		
	- Pulp changes		
	associated with		
	neriodontal nockets		
	periodoniai pockeis		
	Dolationalize of		

	attachment loss and bone loss to pocket depth - Area between base of pocket and alveolar bone - Relationship of pocket to bone - Periodontal abscess		
Treatment plan guidelines	 Lateral periodontal cyst 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 hiofilm 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: Toothbrush design Powered toothbrushes Dentifrices Toothbrushing methods Interdental cleaning aids: Dental floss Interdental brushes 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 stabilization: 	3	28
	Breath Malodor (Halitosis)	 Definitions Epidemiology Classification Etiology: 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	%30 Theoretical par	rt: 65%		

comprehensive 4% exam	annual quest	choices to measure the student's understanding of the scientific material and his ability to express his answer		
daily exams during 3% the theoretical lecture		conectry.		
15 % امتحان نصف السنة				
	%35final exam			
Practice in clinics	10% Practical annual quest	For the practical part 35%		
%25of the final practica to the auditors in the cli	l exam is given nics			
13. Learning and	teaching res	ources		
		Required textbooks (methodology, if any)		
1-Clinical Periodontolo Dentistry, Seventh Ed Lang and Jan Lindhe, 2-Newman and Carrar Periodontology, Thirte	ogy and Implar ition, Niklaus F 2022 nza's Clinical een Edition, 20	Main references (sources) 2. 19		
		Recommended supporting books and references (scientific journals, reports)		

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 ناز ك الدع <i>مي /</i> محمد حسن عبد الشهيد	Teacher's name in Arabic:
Ghassan Nazik / Mohammad Hassan	Teacher's name in English:
مدرس دکتور	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 دکتو ر	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 -9^{th} 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 per	forming surgical	operations			
2. Course code	0 0	*			
3. Semester/year					
the fourth year					
4. The date this des	scription was pre	pared			
2023/22/8					
5. Available attend	ance forms				
My presence					
6. Number of study	v hours (total)/nu	mber of units (total)			
One theoretical hour p	er week				
	h.maya	ali@alkafeel.edu.iq : بميل	صاحب مهدي الأ	م د حيدر	الأسم:
1. Course objectives					
*Giving students a br	ief overview of t	the practical foundations	for practicing surgerv	Objectives	s of the course
general			for practicing surger,	5	
*Prenaring students t	o deal with the r	nost important complice	ations resulting from		
surgical operations an	d how to care fo	or the surgical nationt	ations resulting from		
*Educating students	about the ethics	and professional aspects	of performing surgice		
operations in general	about the ethics	and protessional aspects	or performing surgree		
*Encouraging studen	uts to conduct se	ientific research on topi	cs of surgical treatme		
for various diseases a	nd innovations i	n those treatments	es of surgreat treatme		
1Teaching and learn	ing strategies	in those treatments			
*Careful and practice	al selection of to	nics that will be present	ed to students	,	The strategy
*Following the practice	i selection of to	presenting lectures and fo	cusing on the practical	96 n	The strategy
of general surgery for	ical approach in j	preparing rectures and ro	cusing on the practical	asp	
*Follow the method	ncs. of stimulating or	onstructive interaction of	f students during lectur	20.0	
ansura the participatio	on of the lorgest	number of them in the l	acture	cs a	
*Ensure that the least	rainaludas tha l	argest number of prestic	ol axemples derived fr	om	
lacturer's own experie		argest number of practic	ai examples derived in		
*Drananing simplified	d and multiple a	accompants for students	in the given subject to		
determine the extent	and multiple as	ssessments for students	in the given subject to		
acterimine the extent (or their compren	ension of the information	ll.	1	
*Directing students	towards the prop	per and useful use of in	ternet sites that can he	Ip	
them understand the r	naterials given t	o them.			
		No. 641 44	D	-	.1
method Evaluation	method Evolution	Name of the unit or	Required learning	hours	week
methou	method	τορις	outcomes		
	incentou				

Stress Response 1	* Definitions of the main terms (Metabolism, Homeostasis and Trauma "Stress").	واحدة	1
	* An overview of the stress response.		
	* A Brief of the mediators of stress response.		
Stress Response 2	* Illustration of the phases of stress response (continue) 	=	2
	* Explanation of the mediators of the stress response.		
	* Demonstration of the factors that may cause overstimulation of the stress response.		
Wound Healing 1	1) What is a wound?	=	3
	2) What are the various classifications of wound.		
	3) Features of each type of wound.		
Wound Healing 2	1) The basics of wound healing process.	=	4
	2) The different mechanisms of wound healing.		
	3) The factors that may affect the healing process.		
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.	=	6
	2) Recognize some unusual types of SSI.		
	3) Identify some prophylactic measures to avoid SSI.		
Hemorrhage 1	1) A definition of hemorrhage.	=	7
	2) How to classify types of hemorrhage.		
	3) How to diagnose hemorrhage.		
Hemorrhage 2	I) The principles of management of a patient having a hemorrhage:	=	8
	II) What is "Damage Control Resuscitation".		
	III) The main methods of controlling a bleeding point.		
Shock 1	1) Define the shock	=	9
	2) Demonstrate the pathophysiology of shock		
	3) Classify the types		

		of shock.		
Sh	ock 2	1) Highlight the management of Septic shock.	=	10
		2) Demonstrate the features of other types of shock.		
Blo	ood ansfusion 1	1) What is meant by blood transfusion.	=	11
		2) What are the types and characteristics of the main blood groups.		
		3) What types of blood products can be given.		
Ble 2	ood transfusion	1) Indications of transfusion.	=	12
		2) Precautions to transfusion.		
		3) Complications of Transfusion.		
Wa	ater Balance 1	1) Define Water Balance.	=	13
		2) Mechanisms of balance		
		3) Sources of Water.		
Wa	ater Balance 2	1) Causes of imbalance.	=	14
		2) Features of dehydration.		
		3) Features of toxicity.		
Ele Ba	ectrolyte lance1	1) Electrolyte Homeostasis.	=	15
		2) Main Body electrolytes.		

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

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

			Surgical operations.		
			2) Criteria of choice.		
			3) Work Atmosphere		
			4) Turn-on policy.		
	Robotic Surge	ery	1) Definition of Robotic Surgery	=	30
			2) Indications of Robotic Surgery		
			3) Complications of Robotic Surgery.		
.2Course evaluation	I				
		Annual e mid-yea semester for dail seminar	endeavor: 30/100, which in r exam and 7.5 marks for eac rs, with 5 marks for the seme y exams, attendance, int s.	cludes 15 ch of the fir ster exam a teractive	marks for the st and second and 2.5 marks activity, and
Final exam: 70/100, which includes the practical exam (slides) worth 20 marks and the theoretical exam worth 50 marks.					actical exam xam worth 50
2. 1. Learning and teaching resources		· ·			
Baily and Love Short Practice	of Surgery	Require	ed textbooks (methodology	, if any)	
		Main re	eterences (sources)	1 6	
		journal	mended supporting books a s, reports)	and referen	ices (scientific
		Electro	nic references, Internet site	s	

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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 Objectives of the study subject 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 personal coupled with high moral standards and self-denial. 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.

EvaluationMethodName ofRequired learning outcomehoursweek				Cours	se structu	re.s .s
	Evaluation	Method	Name of	Required learning outcome	hours	week

		1	
Orofacial	pain Classification; somatic and	1	1
	neuropathic		
	\Box \Box Diagnosis		
	\Box \Box Somatic pain; odontogenic pain,		
	oral mucous membrane disorders,		
	temporomandibular joint disorders,		
	muscle disorders		
	□ □ Neuropathic pain; trigeminal		
	neuralgia, glossopharyngeal		
	neuralgia, atypical odontalgia,		
	postherpetic neuralgia		
	$\Box \Box V$ ascular pain: giant cell arteritis	5	
	and migraine	N N	
	and migrame.		
Prelimir	hary Etiology of maxillofacial trauma	1	2
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fractur	es (ATLS)Secondary survey.		
Fracture	s of Classification	1	3
the mand	lible $\square \square Clinical features$	1	2
	\Box \Box Treatment: closed treatment		
	methods of immobilization period		
	of treatment, open reduction and		
	internal fixation (ODIE)		
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skeleton	Zygomatic complex fractures		
Enoctrum	s of Classification aligned	1	6
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genial tubercle reduction and torus removal. Image: semigrative semigratis semigratis semigrative semigrative semigrative semig		undercuts, mylohyoid ridge and		
Image: support of the support of t		genial tubercle reduction and torus		
Preprostheti c surgery. Soft tissue procedures: 1 9 unsupported hypermobile tissue on the alveolar ridge, inflammatory fibrous hyperplasia (epulis fissuratum), labial frenectomy, lingual frenectomy, ridge extension (vestibuloplasty) 1 9 Image: Imag		removal.		
c surgery. 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□ Potentially malignant Otentially malignant Diagnostic methods and disorders of the oral mucosa Potentially malignant Odontogenic mucosa Odontogenic the oral mucosa Odontogenic the oral mucosa Miseases of the maxillary maxillary Miseases of the maxillary maxillary sinus□ Miseases of the maxillary sinus□ Miseases of the maxillary sinus□ Miseases of the maxillary sinus□	Preprostheti	\Box \Box Soft tissue procedures:	1	9
intermediate intermediate intermediate intermediate intermediate intermediate	c surgery.	unsupported hypermobile tissue on		
ibrous hyperplasia (epulis issuratum), labial frenectomy, ilingual frenectomy, ilingual frenectomy, ridge extension (vestibulopasty) immediate dentures immediate dentures imuco		the alveolar ridge, inflammatory		
issuratum), labial frenectomy, ridge extension ingual frenectomy, ridge extension (vestibuloplasty)□ □ Immediate dentures□ □ Alveolar ridge preservation. □ Correction of abnormal ridge □ Correction of abnormal ridge □ Classification and terminology 1 Imalignant □ Diagnostic methods and 10 disorders of the oral Potentially malignant disorders: 1 Imucosa leukoplakia, erythroplakia, palatal 1 11 charges associated with reverse smoking, oral submucous fibrosis, actinic cheilitis and lichen planus. 1 11 diseases of sinus□ □ Clinical and radiographic 1 11 maxillary □ Clinical and radiographic 1 11 imaxillary sinus□ □ Otonotogenic infections of the maxillary sinus□ 1 11		fibrous hyperplasia (epulis		
Inigual frenectomy, ridge extension Immediate dentures Immediate dentures Immediate dentures		fissuratum), labial frenectomy,		
Image: second		lingual frenectomy, ridge extension		
Immediate dentures Immediate dentures Immediate		(vestibuloplasty)		
Image: series of the oral mucosa □ Alveolar ridge preservation. □ Correction of abnormal ridge relationships □ Image: series of the oral mucosa □ Classification and terminology 1 10 Image: series of the oral mucosa □ Diagnostic methods and diagnostic aids 1 10 Image: series of the oral mucosa □ Potentially malignant disorders: 1 10 Image: series of the oral mucosa □ Potentially malignant disorders: 1 10 Image: series of the oral mucosa □ Potentially malignant disorders: 1 10 Image: series of the oral mucosa □ Potentially malignant disorders: 1 11 Image: series of the oral mucosa □ Overview of the maxillary 1 11 Image: series of the maxillary Image: series of the maxillary 1 11 Image: series of the maxillary Image: series of the maxillary <th></th> <th>□ □ Immediate dentures □</th> <th></th> <th></th>		□ □ Immediate dentures □		
Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second		\square \square Alveolar ridge preservation.		
relationships 10 Potentially Classification and terminology 1 malignant Diagnostic methods and 1 disorders of diagnostic aids 1 the oral Potentially malignant disorders: 1 mucosa leukoplakia, erythroplakia, palatal 1 changes associated with reverse 5 1 smoking, oral submucous fibrosis, actinic cheilitis and lichen planus. 1 diseases of sinus 1 11 the Clinical and radiographic 1 11 maxillary sinus Non-odontogenic infections of the maxillary sinus 1 11 odontogenic infections of the maxillary sinus Odontogenic infections of the maxillary sinus 1 11		\Box Correction of abnormal ridge		
Potentially □ Classification and terminology 1 10 Potentially □ Classification and terminology 1 10 malignant □ Diagnostic methods and 1 10 disorders of diagnostic aids 1 10 mucosa Potentially malignant disorders: 1 10 mucosa leukoplakia, erythroplakia, palatal 1 10 changes associated with reverse smoking, oral submucous fibrosis, actinic cheilitis and lichen planus. 1 11 diseases of sinus 1 11 11 diseases of sinus 1 11 11 sinus □ Clinical and radiographic 1 11 maxillary sinus □ Odontogenic infections of the maxillary sinus 1 11 in Odontogenic infections of the maxillary sinus □ Odontogenic infections of the maxillary sinus 1 10		relationships \Box		
Potentially Risk factors, malignant Diagnostic methods and disorders of diagnostic aids Potentially malignant disorders: mucosa leukoplakia, erythroplakia, palatal changes associated with reverse smoking, oral submucous fibrosis, actinic cheilitis and lichen planus. Odontogenic Overview of the maxillary 1 11 diseases of sinus Non-odontogenic infections of the maxillary sinus Odontogenic infections of the maxillary sinus Odontogenic infections of the maxillary sinus Otontogenic infections of the maxillary sinus		$\Box \Box C$ lassification and terminology	1	10
malignant □ Diagnostic methods and disorders of diagnostic aids the oral Potentially malignant disorders: mucosa leukoplakia, erythroplakia, palatal changes associated with reverse smoking, oral submucous fibrosis, actinic cheilitis and lichen planus. 1 Odontogenic □ Overview of the maxillary 1 diseases of sinus□ the □ Clinical and radiographic maxillary sinus□ sinus □ Odontogenic infections of the maxillary sinus□ odontogenic ○ Odontogenic infections of the maxillary sinus□	Potentially	\square Risk factors	1	10
disorders of the oral mucosa Otentially malignant disorders: leukoplakia, erythroplakia, palatal changes associated with reverse smoking, oral submucous fibrosis, actinic cheilitis and lichen planus. Odontogenic diseases of the Overview of the maxillary 1 diseases of the Sinus 1 maxillary Sinus 1 sinus Image:	malignant	\Box \Box Diagnostic methods and		
the oral Potentially malignant disorders: mucosa leukoplakia, erythroplakia, palatal changes associated with reverse smoking, oral submucous fibrosis, actinic cheilitis and lichen planus. 1 Odontogenic Overview of the maxillary 1 diseases of sinus 1 the Clinical and radiographic 1 maxillary sinus 1 sinus Odontogenic infections of 1 the Olonodotogenic infections of 1 diseases of sinus 1 indication infections of 1 maxillary Ono-odontogenic infections of 1 infections infections and 1 infections infections and 1	disordars of	diagnostic aide		
mucosa leukoplakia, erythroplakia, palatal changes associated with reverse smoking, oral submucous fibrosis, actinic cheilitis and lichen planus. 1 Odontogenic Overview of the maxillary 1 diseases of sinus 1 the Clinical and radiographic 1 maxillary examination 1 sinus Odontogenic infections of 1 of the Odontogenic infections of the maxillary sinus 1 of Odontogenic Odontogenic infections of the maxillary sinus 1	the oral	Potentially malignant disorders:		
Intervision Techtoplakia, erythroplakia, paratal changes associated with reverse smoking, oral submucous fibrosis, actinic cheilitis and lichen planus. Odontogenic		laukoplakia arythroplakia palatal		
Odontogenic Images associated with reverse actinic cheilitis and lichen planus. Images associated with reverse Odontogenic Images associated with reverse diseases of Images associated with reverse the Images of the Images of the Images of sinus Images of the Images of the Images of sinus Images of sinus Images of sinus Images of sinus Images of Images of Images of the Images of Images of Images of the Images of Images of Ima	mucosa	changes associated with reverse		
Sinoking, oral submucous fibrosis, actinic cheilitis and lichen planus. Odontogenic diseases of the maxillary sinus sinus iseases of the isease iseases of the isease		changes associated with reverse		
actinic chellitis and lichen planus. Odontogenic Overview of the maxillary 1 11 diseases of sinus 1 11 the Clinical and radiographic 1 11 maxillary examination 1 11 sinus Non-odontogenic infections of 1 11 the Odontogenic infections of 1 11 off Imaxillary Imaxillary sinus 1 11 off Odontogenic infections of 1 11 11 fistulae Imaxillary sinus Imaxillary sinus Imaxillary sinus Imaxillary sinus		sinoking, orai submucous fibrosis,		
Odontogenic Overview of the maxillary 1 11 diseases of sinus 1 11 the Olicitical and radiographic 1 11 maxillary examination 1 11 sinus Olicitical and radiographic 1 11 maxillary examination 1 11 sinus Olontogenic infections of 1 11 output Odontogenic infections of 1 1 11 output Odontogenic infections of 1 1 1 1 1 output Odontogenic infections of the 1 <th></th> <th>actinic cnellitis and lichen planus.</th> <th>1</th> <th>11</th>		actinic cnellitis and lichen planus.	1	11
diseases of the sinus maxillary clinical and radiographic maxillary examination sinus Non-odontogenic infections of the maxillary sinus Odontogenic infections of the maxillary sinus Oroantral communications and fistulae	Odontogenic	$\Box \Box$ Overview of the maxillary	1	11
the Clinical and radiographic maxillary examination sinus Non-odontogenic infections of the maxillary sinus Odontogenic infections of the maxillary sinus Odontogenic infections of the fistulae Toroantral communications and	diseases of	sinus 🗌		
maxillary examination [] sinus [] Non-odontogenic infections of the maxillary sinus [] [] Odontogenic infections of the maxillary sinus [] [] Oroantral communications and fistulae [] [] Toroantral communications and	the	\Box \Box Clinical and radiographic		
sinus Image: Non-odontogenic infections of the maxillary sinus Image:	maxillary	examination		
the maxillary sinus Odontogenic infections of the maxillary sinus Oroantral communications and fistulae	sinus	\square \square Non-odontogenic infections of		
 Odontogenic infections of the maxillary sinus Oroantral communications and fistulae 		the maxillary sinus \Box		
maxillary sinus □ □ Oroantral communications and fistulae □		\Box \Box Odontogenic infections of the		
□ □ Oroantral communications and fistulae □		maxillary sinus 🗆		
fistulae □		□ □ Oroantral communications and		
		fistulae		
$ \square \square Treatment \square$		□□Treatment□		

Benign	□ □ Definition □	1	12
cystic lesions	□ □ Classification of cysts		
of the oral	(according to the WHO		
cavity	classification 2017)		
	□ □ Odontogenic cysts of		
	inflammatory origin		
	□ □ Odontogenic and non-		
	odontogenic developmental cysts		
	\square Clinical features \square		
	\square \square Radiographic features \square		
	\Box Surgical management of cystic		
	lesions		
	\square Enucleation: indications.		
	advantages and disadvantages \square		
	\square Adjunctive treatment \square		
	\square Peripheral ostectomy and		
	curettage		
	\square \square C ryotherapy		
	\square \square Chemical treatment \square		
	Topical 5-fluorouracil		
	$\square \square Marsunialization \square$		
Odontogenic	\square \square \square \square \square \square \square \square \square	1	13
	$\Box \Box Classification of Odontogenic$	1 I	13
tumors	Tumors (according to the WHO		
	classification of adoptogenia syste		
	tumors and maxillafacial hara		
	tumors 2017)		
	$\Box \Box \Box \Box \Box \Box D = D = D = D = D = D = D = $		
	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □		
	tumors. $\Box \Box Clinical factors$		
	$\Box \Box \Box Cinical features$		
	\square \square Peripheral/extraosseous)		
	$\Box \Box$ Compound type		
	\Box \Box Complex type		
	\Box \Box Surgical treatment of		
	odontogenic tumors		
	$\Box \Box$ Enucleation and/or curettage,		
	adjunctive treatment		
Non-	□ □ Classification (according to the	1	14
odontogenic	WHO classification of odontogenic		
tumors and	and maxillofacial bone tumors 4th		
P*1	adition 2017)	1	

osseous	□ □ Giant cell lesions		
lesions of the	\Box Central giant cell granuloma		
iaw	\square \square Brown tumor of		
	hyperparathyroidism		
	\Box Cherubism \Box		
	\Box \Box Aneurysmal hone cyst		
	$\Box \Box Fibrous dysplasia$		
	U Ussifying fibroma		
	Cemento-osseous dysplasia		
Oral cancer	□ □ Natural history of squamous cell	1	15
	carcinoma		
	□ □ Etiology □		
	\Box \Box Site distribution \Box		
	\Box \Box Clinical presentation \Box		
	\Box \Box Staging (using the 8th edition of		
	the cancer staging manual) and		
	grading		
	□ □ Radiographic assessment □		
	\Box \Box Surgical treatment, access to the		
	oral cavity \Box		
Oral cancer	\square \square Management of the neck \square	1	16
	\square \square Postoperative follow up \square		_
	\square \square Radiotherapy, radiotherapy		
	techniques and fractionation \Box		
	\square \square Chemotherapy, agents and		
	scheduling		
	\square \square Palliative treatment and terminal		
	care		
Implant	\Box Immediate post-extraction	1	17
Treatment.	implants	1	17
Advanced	$\Box \Box Immediate loading versus$		
Concents	delayed loading		
Concepts	\Box		
	Done grans and gran		
	Substitutes. $\Box \Box \Box$ Sinva lift proceedure		
T14		1	10
	Interior alveolar nerve	1	10
I reatment:			
Advanced	□ Narrow and short implants		
Concepts	☐ Image-guided implantology		
	\Box Computer-Assisted Implant		
	Surgery		
	□ Special implants (zygomatic and		
	extra-oral implants)		
Salivary	□ Overview of major and minor	1	19
gland	salivary glands		
diseases	□ Clinical assessment		
ubcubcb			

		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 		
Sali gla dise	livary nd eases	 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
Ter ndi join dise	mporoma ibular nt (TMJ) orders	 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
Ter ndi joir dise	mporoma ibular nt (TMJ) orders	 Hypermobility of TMJ Hypomobility of TMJ: Classification of TMJ ankyloses Treatment 	1	22

			T
Orthognathi	□ Definition	1	23
c surgery	□ Treatment objectives		
	□ Clinical examination (facial		
	evaluation in frontal and profile		
	views)		
	□ Radiographic evaluation (Lateral		
	cephalometric analysis)		
	Pre-surgical Orthodontic		
	Considerations		
	□ Treatment Timing		
Orthognathi	Mock surgery and fabrication of	1	24
c surgery	splints		
	□ Surgical treatment phase		
	(mandibular excess, mandibular		
	deficiency, maxillary excess.		
	Maxillary and Midface Deficiency)		
	\Box Distraction osteogenesis		
Cleft lin and	Epidemiology	1	25
nalate	□ Etiology	-	
Puinte	\Box Classification		
	\square Prenatal diagnosis		
	\Box Clinical manifestations		
	□ Management: presurgical		
	orthopedics primary operative		
	management treatment planning		
	and timing surgical procedures of		
	cleft lin		
Cloft lin and	Management: Surgical procedures	1	26
nelete	of cleft palate complications	1	20
	\Box Secondary operative		
	management: alveolar hone		
	arafting goals and timing		
	procedure, source of hone graft		
	applications		
I agan ar J		1	77
Laser and	\Box Laser	1	21
Cryosurgery	Lassification of laser according		
	to power: low- energy and high-		
	$\Box \text{ The advantages of } I$		
surgery	U Ine advantages of laser		
	□ Hazards and precautions required		
	when using laser		
	Cryosurgery techniques		
	Uses of cryosurgery		
	\Box The advantages of using		
	cryosurgery		
	\Box The disadvantages of using		
	cryosurgery		
Vascular	□ Classification (according to	1	28
anomalies	ISSVA 2018)		
	🗆 🗆 Hemangioma		

	□ Clinical presentation and staging		
	□ Investigations		
	□ Treatment		
	\Box \Box In the proliferative phase		
	\Box \Box In the involutive phase		
	\square Residual lesions		
	\square \square Vascular malformations		
	\Box Classification according to the		
	vessel type and whether high or low		
	flow		
	\Box Clinical presentation with		
	emphasis on the intraosseous		
	venous malformation		
	\Box Investigations		
	\Box Treatment		
Principl	es of Goals of reconstruction	1	29
reconstr	ructi Biologic basis of bone	-	-
ve surge	erv of reconstruction		
defects	of \Box Types of grafts (autogenous.		
the jaws	allogeneic.		
· J	xenogeneic)		
	\Box Osteoinduction. Osteoconduction		
	and Osteogenesis		
	\Box Assessment of patient in need for		
	reconstruction		
	\Box Goals of mandibular		
	reconstruction		
	\Box Defect types and localizations		
	\square Mandibular reconstruction		
	\Box Surgical principles of		
	maxillofacial bone grafting		
	procedures		
Principl	es of \Box Maxillary reconstruction	1	30
reconst	ucti \Box Goals of maxillary reconstructive	-	50
ve surge	erv of surgery		
defects	of \Box Computer-assisted surgical		
the	planning		
iaw	r \Box Flaps for maxillofacial		
	reconstruction		
	□ Definition		
	□ Classifications		
	\Box 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		
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		Ar	nnual quest	
40			40	
	The first semester and the second half of the	The first se	emester and	
	year	the second half of the		
		year		
	15		25	
		1015theoreticpracticalal1		
1. Learning and teaching resources				
	Required textbooks (methodology, if any)			
Textbook of oral & maxillofacial surgery.	Main references (sources)			
Maxillofacial Surgery Booth.				
	Recommended supporting books and references (scientific journals,			
	reports)			
	Electronic references, Internet sites			

1. Course n	ame										
Periodontal dis	eases and surger	У									
2. Course co	ode										
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 theo	retical hours										
60 working hours											
	ma	aher.b@alkafeel.edu.i	الأيميل : q	ِ بلاش محمد	لاسم: م.ماهر	11					
. Cours	e objectives										
Teaching students about diseases of the tissues surrounding Objectives of the study subject											
teeth, their types, causes, factors affecting their occurrence,											
methods of treating them.											
1. 1. Teaching and learning strategies											
Theoretical: U	Using interact	ive lectures. PowerPo	oint. and d	lrawing on the bo	oard The	strategy					
Practical: Te	aching the stu	ident through educa	ational cli	nics on patients	in						
presence of s	specialist doct	ors supervising and	discussio	on sessions on m	nedi						
cases.		···· 8 ····									
Course structure											
method	method	Name of the unit or	Required l	earning outcomes	hours	week					
Evaluation	Evaluation	topic									

method	method				
	lecture	Examinationof	Define the examination,	2	1
		periodontal disease	clinical examination inclu		
			periodontalindecies		
			,radiographical examinat		
			, risk factour		
	lecture	classification of	Define the gingivitis ,type	1	3
		gingivitis	of gingivitis , sign and		
			symtoms		
	lecture	declassificat	Define ,types of	2	4
		ofperiodonti	classification , types of		
			periodontal disease ,sign		
			and symptoms, stages of		
			disease and grad		
	lecture	Periodontics	Periodontal diseas	2	6
		and other	related to		
		fields	orthodontic		
			treatment		
			Periodontal diseas		
			related to operativ		
			as filling or crown		
			Periodontal diseas		
			related to		
	la atura		prosthodontics	4	0
	lecture	Mobility of the	Types of mobility,	1	8
		teeth	causes , primary and		
			secondary of mobility		
			,assessment of mobility ,		
			treatment of mobility		
			according situation		
	lecture	Traumatic	Define of trauma , acute	1	9
		occlusion	and chronic, oral		
			manifestation of trauma		
			, primary and		
			secondary occlusal		
			trauma and treatmeant		
			for each one		
	lecture	Gingival	Define GCF, how can	1	10
		crevicular fluid	formation , the		
					1
			composition of GCF.		
			composition of GCF. How can collected , the		
		it.			
---------	------------------	------------------------------	---	----	
		The uses of periodontal			
		markers			
lecture	Surgical	Types of incisions . the	2	11	
	treatment	surgical instrument,			
	gingivactomy	define gingivactomy			
		Indication , contra			
		indication , benefits and			
		disadvantages.			
		The steps of			
		gingivactomy			
lecture	Types of surgery	Types of periodontal	2	13	
	treatment flap	surgerys , define of flap			
		, types , classification o f			
		flap and uses according			
		this classification			
lecture	Gummy smile	Define , examination	2	15	
	and mucogingival	and diagnosis , the			
	surgery	causes and treatment .			
		Define Mucogingival			
		surgery, types includes			
		frenotomy frenoctomy			
lecture	Healing in the	Define repair , new	2	17	
	periodontal	attachment ,re			
	treatment Guided	attachment , long			
	tissue	junctional .regeneration			
	regeneration	. phases of healing			
		development .factors			
		effecting healing .			
		GTR types , and			
		indication .			
lecture	Furcation	Toth anatomy and some	2	19	
	involvement	terms .			
		Classification .			

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

			diagnosis, clinical		
			features and treatment		
	محاضرة	Periodontal	Treatment patients with	1	25
		treatment of	cardiac disease ,angina		
		compromised	,MI. patient with		
		patients	asthma		
	محاضرة	Periodontal	Treatment patients with	1	26
		treatment of	diabtic disease.		
		compromised	Eplipsy		
		patients			
	محاضرة	Halitosis	Types of bad odor , the	1	27
			sources of odor Causes,		
			treatment		
	محاضرة	Dentin	Define , clinical features	1	28
		Hypersensitivity	, the types and source of		
			hypersensitivity . the		
			periodontal treatment		
	محاضرة	Periodontal	Innate immunity and	2	29
		imunity	includes saliva , GCF,		
			gingival epithelium ,cell		
			microphage and		
			lemphocite .		
			Acquired immunity		
			includes types of Tcell,		
			B cell and types of		
			antibody		
	1		2. 1	. Course e	valuation
		ineoretical: 1% a	Learning and teaching	y (per seme resources	.3.3
			Required textbooks (r	nethodolog	y, if any)
1) carrnaz'a	a clinical period	ontology	Main	references	(sources)
cinical perio	buomology and	dentistry			
	[3] periodontal	medicine			
fundament rumentation [dicine_periodo	tal of pe 2] color atlas ntology [3] eriodontal plasti	eriodontal of dental practical c surgery	Recommended supporting bool (scientific	ks and re journals, r	eferences eports)
μ	piusei				

14	Course	Name:				
Dental	materia					
15	Course	Code:				
DNK2-	DM	couc.				
16	Semest	er / Vear				
second	Vear					
17	Descrir	ntion Prenaration Date:				
10-9-20)23	fion reparation Date.				
10-9-20	<u>Availat</u>	ale Attendance Forms:				
10.	On can					
19	Numbe	er of Credit Hours (Total) / Number o	fInits	r (Total)		
17.	Theory	~ 30 hours in 30 weeks		s (10tal)		
	Practic	al: 60 hours in 30 weeks				
	Numbe	er of units: 4				
	rumoe	of units. T				
20.	Course	administrator's name (mention all, it	f more	than one name)		
	Name:	Azal Hadi Al-Masoody		,		
	Email:	azal.almasoody@alkafeel.edu.ig				
21.	Course	Objectives				
Course	Objecti	ves	• • P	roviding students wit	h basic scientif	fic
			kno	owledge about dental	materials.	
			• • D	eveloping students' s	skills in analyzi	ng and
			eva	duating various denta	al materials.	•
			• • T	raining students to a	pply dental mat	terials in a
			pra	ctical way.		
			• • E	ncouraging students	to pursue scien	tific
			res	earch in the field of c	lental materials	s.
22.	Teachi	ng and Learning Strategies				
Strateg	у	Applying education base	d on in	dividual differences	in teaching den	tal
		materials: The teacher can	modify	y the educational cont	tent or teaching	methods to
		meet the needs of differen	t stude	ents. For example, a t	eacher can prov	vide more
		support to students who as	re havi	ng difficulty understa	anding certain	material.
		Game-based learning: wh	here stu	idents learn by partic	ipating in fun a	activities or
		competitions.				
		Create a website containing	ing edu	cational content abou	ıt dental materi	als, such as
		videos, presentations, and	article	s. Students can acces	s this content a	anytime,
		anywhere.				
23. Course Structure						
Week	Hour	Required Learning Outcomes		Unit or subject	Learning	Evaluation
				name	method	method
1	1	1. Define the term "dental materials"	" and	Introduction to	Lectures	Weekly
		explain their importance in dentistry	/.	Dental materials		exams in
		2. Describe the basic properties of				the form
		significance.				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 –	Dental cements	
		setting time, strength, adhesion, and	part 2 (RMGIC,	
		biocompatibility.	giomers,	
		Differentiate between chemical and	compomers, resin	
		mechanical bonding mechanisms.	cements)	
13	1	Analyze the key properties of each cement –	Cements for vital	
		setting time, strength, adhesion, and	pulp therapy	
		biocompatibility.	(Dycal, Theracal,	
		Differentiate between chemical and	MTA, Biodentine)	
		mechanical bonding mechanisms.		
14	2	Compare and contrast the key properties of	Temporary	
		common temporary filling materials like zinc	restorative	
		oxide eugenol, zinc phosphate cement, self-	materials	
		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.		
15			Mid year exam	
16	1	Define dental ceramic types, uses	Dental ceramic	
	_	and properties.		
17	1	Define dental gypsum materials	Dental gypsum	
		types, uses and properties.	products	
18	1	Define dental wax materials	Dental wax	
		types, uses and properties.		
19	1	Define dental investment	Dental investment	
		materials types, uses and	materials	
		properties.		
20	1	Types uses and properties of	Dental impression	
		Dental impression materials.	materials	
			(introduction ,rigid	
			impression	
			materials)	
21	1	Define dental impression	Dental impression	
		materials types, uses and	materials	
		properties.	(hydrocolloid	
			impression	
			materials)	
22	1	Define dental impression	Dental impression	
		materials types, uses and	materials	
		properties.	(elastomeric	
			Impression	
			materials)	
23	1	Define the polymers types, uses	Polymers	
		and properties. And applications		
<u>.</u>		in dentistry	Dentre 1	
24	1	Grasp the Denture base materials	Denture base	
		types, uses and properties.	materials	
25	1	Comprehend Denture liners,	Denture liners,	
		conditioners and relining	conditioners and	
		materials types, uses and	relining materials	
0.5		properties.	Madala 1 (<u> </u>
26	1	Understand different types of	Metals in dentistry	
		Metals in dentistry, uses and		
27		properties.	Enclose 1	<u> </u>
27	1	Define Finishing and polishing	Finishing and	
		materials types, uses and	polishing materials	
20	1	properties.	Matariala	<u> </u>
28	1	Define Materials used in	Materials in	

		endodontics types, uses and	endodontics		
	_	properties.			
29	1	Define Materials in preventive	Materials in		
		dentistry types, uses and	preventive dentistry		
20	1	properties.	Turnlant and		
30	I	maxilla facial materials types uses	maxillofacial		
		and properties	materials		
24	Course E	valuation	Indertais		
Distril	bution of	the grade out of 100 according to the task	s assigned to the stude	at such as daily preparation	'n
daily	oral mor	the grade out of 100 according to the task	s assigned to the stude	it, such as daily preparatio	'II,
Gally,	oral, 11101	12.5 (daily avams + semester avam + sem	inar (attendance)		
Midu		12.5 (daily exams + semester exam + sem	inal + attenuance)		
Mid-y	d composit	or 10.5			
Einal	u semeste	theoretical			
	exam. 55	tileoletical			
25 pra		and Tasahing Descenses			
23. J	Learning	and Teaching Resources			
Requi	red textbo	boks (curricular books, 11 any)			
Main	reference	s (sources)	• Phillips Science	of Dental Materials,	
			Kenneth Anusavice.		
			• Craig's Restorativ	ve Dental Materials,	
			Ronald L. Sakaguchi.		
			• Introduction to D	ental Materials, Richard	
			Van Noort.		
			• Dental Materials	at a Glance, J. Anthony	
			von Fraunhofer		
Recon	nmended	books and references (scientific			
journa	als, report	s)			
Electro	onic Refe	erences, Websites			

26.	Course Name:							
Prosthodon	Prosthodontics							
27.	Course Code:							
28.	Semester / Year:							
$2^{\rm nd}$ year								
29.	Description Preparation Date:							
10-9-2023								
30.Avail	able Attendance Forms:							
Tradi	itional Learning							
31.Number of Credit Hours (Total) / Number of Units (Total)								
Theo	ry:1h/wk. (total 30h)							
Labo	ratory 2h/wk. (total 60h)							

32. Course administrator's name						
Name: A. Lect. Ali Abbass Hussain						
Email: <u>ali.abbass@alkafeel.edu.iq</u>						
33.	Co	ours	e Objectives			
Course Ob	jectives	5	 Providing st prosthetic den Developing s Training st practical way. Encouraging field of the pro- 	tudents with basis tistry. tudent's skills in la tudents to apply students to purs osthodontics.	c scientific kn aboratory wor prosthetic sue scientific i	owledge abd rk. material in research in t
34.	Τe	each	ing and Learning	Strategies		
Strategy• Applying the dental educational different support to certain material • Brainston discussed • Create a industry, a access this25Course Structure			Applying education e dental industructional content ferent students. oport to students rtain material. Brainstorming-bas cussed and conclu create a website content freate a website content a custry, such as vio	n based on indivi ry subject: The or teaching met For example, a rs who are havin red learning: by a ided ontaining education deos, presentation nytime, anywhere	idual different teacher can hods to mee teacher can ng difficulty sking questio onal content al as, and article	ces in teachi n modify t t the needs provide mo understandi ons that can bout the den s. Students c
Week	Hours	5	Required Learning	Unit or subject	Learning	Evaluation
			Outcomes	name	method	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 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	Record Base	
		Types of materi used in construc of 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 rela	
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 eccer jaw relation.	Horizontal Jaw Relatior	
14	3	Dental articulator Definition Functions of articulator	Dental Articulators (Classification & Digita computerized articulato	

		Requirements of	programming(
		articulator Types of articul		
15	3	Types of afficu	Mid year exam	
15	5			
16	3	Face-bow	Face – Bow	
		Definition Parts of face how		
		Types of face $-$ bow		
		Important of the face		
		- bow		
17	3	Mounting	Mounting	
		Definition		
		Preparation of		
		articulator		
		Preparation of the casts		
		and mounting the upper		
		Mounting the lower		
		cast		
		Errors occurred		
		during mountin		
18	3	Selection of anterior	Selection Of Artificial Te	
		teeth		
		The factors of shade		
		selection		
		b Width		
		Form selection		
		Materials of anterior		
		teeth		
		Difference between		
		acrylic and porcelain		
		teeth.		
19	3	Shade	Selection Of Posterior Te	
		Mesio distal length		
		Occluso-gingival height		
		Occlusal form		
		Advantages of casp		
		form teeth		
		Advantages of r		
		cusp form teeth		
20	3	Guideline of artificial	Arrangement Of Artifici	
		Arrangement of	Anterior Teeth	
		anterior teeth		
		Arrangement of		
		upper anterior to		
21	3	Curve of Spee	Arrangement Of Posteri	
		Compensatory curves	Teeth	
		Arrangement of lower		
		posterior teeth		
		Arrangement of upper		
		Common or common		
		common errors		
		teeth		
22	3	Waxing	Waxing And Carving	
	-	Definition		
		Requirements of		

		surfaces		
		The procedure of		
		waxing		
		Establishing the		
		posterior palatal seal		
		area		
		Procedure for carving		
		of posterior palatal seal		
		area		
		A dwantages of posterior		
		Advantages of posterior		
		palatal seal		
		Esthetic		
		consideration in		
		complete dentu		
23	3	Occlusion	Complete Denture	
25	5	Occlusion of complete	Occlusion	
		Occlusion of complete	Occlusion	
		denture		
		Centric occlusion		
		Centric relation		
24	3	Eccentric occlusion	Complete Denture	
		Concepts of complete	Occlusion	
		denture evaluation	Geelusion	
		Iry-in appointn		
25	3	Flasking of the denture	Processing Of The Dent	
		Flasking technic	(Flasking)	
26	3	Causes of errors in	Occlusal Correction	
	C C	occlusion		
		Selective grinding		
		Selective grinding		
		Correction of occlusal		
		errors		
		Disadvantages of intra		
		-oral correction		
		Advantages of extra		
		Advantages of extra –		
		oral correction		
		Rules for selective		
		grinding.		
27	3	Procedure of finishing	Finishing And Polishing	
	_	Grinding and cutting	Complete Denture	
		instruments	Compiete Dentare	
		Polisning of complete		
		denture		
		Principles of polishing		
		Procedures of		
		polishing		
20	2	Types of material used	Renair Of Complete Der	
28	3	i ypes of material used	Repair Of Complete Den	
		in repair		
		Causes of denture		
		fracture		
		Types of repair		
		Laboratory		
		procedure for		
		procedure for		
		repairing fractu		
	<u> </u>	denture base		
29	3	Replacement of broken	Repair Of Complete Den	
		or missing tooth	- •	
		Replacement of		
		missing on lost nort		
		missing or lost part		
		Requirement of		
	<u> </u>	repair		
30	3	Indication for relining	Relining And Rebasing	
		or rebasing		

Relining Contraindications of relining and rebasing The impression techniques for relining and rebasing.				
36. Course Evaluation		i		
Theoretical part: 65%	30%	6 % 1st & 2nd Semester exam		
Theoretical exams include essay questions and mult		2 % Presence and interaction		
choices to measure the student's understanding of		7 % Quizs		
scientific material and his ability to express his ans		15 % Mid. Year Exam		
correctly.		35% Final Exam		
Practical part 35%	10%	4% Semester exam		
		2 % Presence and interaction		
		4% Seminar		
	25% F	Final Exam: in the form of slides contair		
	questio	ons of a practical nature and mock questi		
37. Learning and Teaching Resources				
Required textbooks (curricular books, if any)				
Main references (sources)	• Edd Den Pro Geo • T Na	Prosthodontic Treatment entulous Patients: Comple- ntures and Implant-Support ostheses. orge A. Zarb Fextbook of Prosthodontics. Deep llaswamy		
Recommended books and references (scientif	ic			
journals, reports)				
Electronic References, Websites				

1. Course Name						
Prosthodontics						
2 Course Code						
2. Course						
3 Somosto	r /Voor					
3 rd year						
4. Descript	tion Preparation Date:					
10-9-2023						
5. Availabl	e Attendance Forms:					
l raditio	nal Learning of Credit Hours (Total) / Number of Units (Total)					
Theory:	1 /wk (total 30h)					
Laborat	ary 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 Objective	 Providing students with basic scientific knowledge about 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	g and Learning Strategies					
Strategy• Applying education based on individual differences if the dental industry subject: The teacher can meducational content or teaching methods to meet the different students. For example, a teacher can pro- support to students who are having difficulty und 						

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

21	1	Stress Breaker	Pro	osthod	ontics	
22	1	Biomechanics	Pro	osthod	ontics	
		Removable Part				
		Dentures				
23	1	Biomechanics	Pro	osthod	ontics	
		Removable Part				
		Dentures				
		(Continue)				
24	1	Principles	Pro	osthod	ontics	
		Removable Part				
25	1	Denture Design				
25	T	Phases	Pro	osthod	ontics	
		Removable Part				
76	1	Denture Treatme	D	- 41. ¹		
20	1	Acrylic Removal	Pro	ostnod	ontics	
27	1	Acrulia Dentures	Dma	othad	ontica	
- '	-	Activity Reillova	rr(istiiod	UNTICS	
		Partial Delitur				
28	1	Law Relation	Dro	octhod	ontics	
		Jaw Relation Removable Part	110	JStilou	ontics	
		Dentures				
29	1	Renairs a	Pro	osthod	ontics	
		Additions	110	Joinou	oncies	
		Removable Part				
		Dentures				
30	1	Special Impressi	Pro	osthod	ontics	
		Techniques				
		Removable Part				
		Denture (alter				
		cast				
		techniquesetc.)				
11. Co	urse Eva	luation				
Theoretica	l part: 65%	, 0		30%	6 % 1st	& 2nd Semester exam
Theoretical	exams inclu	ide essay questions and	muli		2 % Pre	sence and interaction
choices to	measure the	e student's understandin	g of		7 % 0	79
scientific ma	aterial and	his ability to express his	ans		/ /0 QUI	23
correctly.					15 % M	Id. Year Exam
				35% Final Exam		
Practical p	art 35%			10%	4% Sem	nester 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/ SECO EDITION
	-[Mc Crackens Removable Part Prosthodontic / Twelfth ed't'on
	-Prosthodontic Treatment
	Dentures and Implant-Support
	Prostheses. George A. Zarb
	-Textbook of Prosthodontics. Deep
	Nallaswamy
Recommended books and references (scientif	c
journals, reports)	
Electronic References, Websites	

1. Course Name:

Conservative dentistry

2. Course Code:

3. Semester / Year:

 $5^{\text{th}}\ \text{year}$

4. Description Preparation Date:

10-9-2023

5. Available Attendance Forms:

Traditional Learning

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

Tł	Theory:1h/wk. (total 30h)												
7. Course administrator's name													
Na	ame: A	pro	of. Sarmad M. Ha	mozi									
Email: Dr.sarmadh@alkafeel.edu.ig													
Name: Assist Lect Ghadeer Shakir Shabaa													
Er	nail [.] G	had	eer shakir@alka	feel edu ja									
8 Co	8 Course Objectives												
Course Objectives													
Course Or	Jecuves		• Educating	students and train	ing them to	o work den							
			Deat canal to	vootmont (tooobing	and training)								
0 Та	o ob in o		• ROOL Callal L		and training)								
9. 16	eaching	and		gies									
Strategy		• Ap	oplying education	on based on individ	ual difference	ces in teachi							
	1	the c	dental industry :	subject: The teacher	can modify t	the education							
		cont	ent or teachin	g methods to me	et the need	ls of differe							
	:	stud	ents. For exam	ple, a teacher can	provide mo	ore support							
	:	stud	ents who are ha	ving difficulty under	rstanding cer	rtain materia							
		Br	ainstorming-bas	sed learning: by as	king question	ns that can							
		discu	ussed and conclu	uded									
		• Cr	eate a website c	containing education	al content at	oout the den							
	j	ndu	strv, such as vi	ideos, presentations	, and articles	s. Students c							
		acce	ss this content a	nutimo anuwhoro	,	industry, such as videos, presentations, and articles. Students d							
10 Course Structure (Theory)													
10. Cou	rse Str	uctu	re (Theory)	ingtime, anywhere.									
10. Cou Week	rse Str Hours		re (Theory) equired	Unit or subject	Learning	Evaluation							
10. Cou Week	rse Str Hours	uctu R L	re (Theory) equired earning	Unit or subject	Learning method	Evaluation method							
10. Cou Week	rse Str Hours	R L C	re (Theory) equired earning utcomes	Unit or subject name	Learning method	Evaluation method							
10. Cou Week	rse Str Hours	ICTUI R L O 1 de	re (Theory) equired earning utcomes efinition of fixed	Unit or subject name Terminology.	Learning method Powerpoint &	Evaluation method Quiz &							
10. Cou Week	rse Str Hours	R L C C C C	re (Theory) equired earning utcomes efinition of fixed artial denture,	Unit or subject name Terminology,	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str Hours	UCTUI R L O 1 de E	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth	Unit or subject name Terminology,	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str Hours	ICTUI	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss,	Unit or subject name Terminology,	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str Hours	ICtur R L O 1 de Ei L C	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P	Unit or subject name Terminology,	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str	I de De De De De De De De De De D	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P icluding Basic Brid	Unit or subject name Terminology, Types of Fixed Bridge	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str Hours	I de pa En En E	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P icluding Basic Brid esign	Unit or subject name Terminology, Types of Fixed Bridge	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str Hours	I de pa Eri La Color 1 in D 1 Ra	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P ecluding Basic Brid esign etainers	Unit or subject name Terminology, Types of Fixed Bridge Components of Fi	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str Hours	I Current Curr	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P icluding Basic Brid esign etainers	Unit or subject name Terminology, Types of Fixed Bridge Components of Fi Bridge Components of Fi	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str	I de pa Eri La Control 1 in D 1 Ra 1 Pa Control 1 Pa Cont	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P icluding Basic Brid esign etainers ontics onnectors.	Unit or subject name Terminology, Types of Fixed Bridge Components of Fi Bridge Components of Fi Bridge	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str Hours	R L O 1 de D D 1 In 1 R	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P icluding Basic Brid esign etainers ontics onnectors. Abutment	Unit or subject name Terminology, Types of Fixed Bridge Components of Fi Bridge Components of Fi Bridge Clinical Consideration	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str Hours	R L O 1 de Ei L O 1 de D 1 1 Re 1 Pe C C 1 Pe C C 1 Pe T T	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P icluding Basic Brid esign etainers ontics onnectors. Abutment ooth(evaluation	Unit or subject name Terminology, Types of Fixed Bridge Components of Fi Bridge Components of Fi Bridge Clinical Consideration Bridge Construction	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str Hours	R L O 1 de Pa La O 1 de 1 R <td>re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P icluding Basic Brid esign etainers ontics onnectors. Abutment ooth(evaluation id selection)</td> <td>Unit or subject name Terminology, Types of Fixed Bridge Components of Fi Bridge Components of Fi Bridge Clinical Consideration Bridge Construction</td> <td>Learning method Powerpoint & Word</td> <td>Evaluation method Quiz & Semester exam</td>	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P icluding Basic Brid esign etainers ontics onnectors. Abutment ooth(evaluation id selection)	Unit or subject name Terminology, Types of Fixed Bridge Components of Fi Bridge Components of Fi Bridge Clinical Consideration Bridge Construction	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str Hours	R L O 1 de D D 1 R D D 1 R 1 Pe C C 1 Pe 1 1	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P icluding Basic Brid esign etainers ontics onnectors. Abutment ooth(evaluation ind selection) Crown/Root	Unit or subject name Terminology, Types of Fixed Bridge Components of Fi Bridge Components of Fi Bridge Clinical Consideration Bridge Construction	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str Hours	R L O 1 de D D 1 Inn 1 R C I I P C I I P C I I P C I I P C I I P C I I P I P I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <thi< th=""> I I</thi<>	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P icluding Basic Brid esign etainers ontics onnectors. Abutment ooth(evaluation ind selection) Crown/Root atio.	Unit or subject name Terminology, Types of Fixed Bridge Components of Fi Bridge Components of Fi Bridge Clinical Consideration Bridge Construction	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str Hours	R L O 1 de Pa Ef La O 1 de 1 Ra 1	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P icluding Basic Brid esign etainers ontics onnectors. Abutment ooth(evaluation ind selection) Crown/Root atio. Splinting of teeth.	Unit or subject name Terminology, Types of Fixed Bridge Components of Fi Bridge Components of Fi Bridge Clinical Consideration Bridge Construction	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							
10. Cou Week	rse Str Hours	R L O 1 de E L C I I D 1 R 1 P C I I R I P I R I R I P I R I P I R I P I R I R I P I R I P I P I R I I R I I R I I R I I R I I I I I I I I I I I I I I	re (Theory) equired earning utcomes efinition of fixed artial denture, ffect of Tooth oss, omparism with R.P icluding Basic Brid esign etainers ontics onnectors. Abutment ooth(evaluation ind selection) Crown/Root atio. Splinting of teeth. Patient Occlusal	Unit or subject name Terminology, Types of Fixed Bridge Components of Fi Bridge Components of Fi Bridge Clinical Consideration Bridge Construction	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam							

гг		~		
	1	_General Factors.		
6	1	(Post. Til	Clinical Situati	
		Abutments, S	affecting Bridge Design	
		Length, Pier Ab		
	1	Arch Curvature)		
1	1		Resin bonded bridge	
8	1	a. Intra-oral	Diagnosis And Treatm	
		Examination.	Plan.	
		b. X-Rays		
		Examination.		
		c. Diagnostic C		
		Examination.		
9	1		Gingival retraction	
			impression(techniques)	
			impression disinfectior	
10	1	(Principles of	provisional Restoratio	
		occlusion occlusal	Oclussion and Aestheti	
		plane, Anterior		
		guidance)		
		Bite Registeration, a		
11		Articulation		
11	1	(Principles of	provisional Restoratio	
		occlusion occlusal	Oclussion and Aestheti	
		plane, Anterior		
		guidance)		
		Bite Registeration,		
12	1	Articulation	True in and Ch	
12	1	(Colour	Iry-in and Sn	
		uninensions Huo Chromo and Val	Selection	
13	3	(Techniques)	Final Computation	
15	5	(Techniques).	Final Cementation	
14	1		F.F.DS. Foilura in Fi	
	-		Prosthodontics	
15	2		Mid vear exam	
16	- 1	(Current Coromia)	Doroalain in Ei	
10	1	(Current Ceramic).	Prosthodoptics	
17		General and	Endodontia diagnosia	
		examination	Linuouontie utagnosis	
18	1	Define of PRT	Pain control	
	1	Type of anesthesia	Fndodontics	
19	1	Define dental Y_	Endodontic radiography	
	-	Rav	Lindodonnie radiograph	
		Type of X-Ray		
20	1	How to estimate	Working len	
		working length	Determination	
21	1		Microbiology	
22	1		Microbiology	
22	1	Magazza T.	Letro con -1 is st	
23	1	Ivianuwal Intraca	intracanal instruments	
		instruments		

			1				
24	1	Rotary Intraca	Intra	canal instru	uments		
25	1	Type of the sealrs.	Obtu	ration of	the r		
	1		canal	system			
26	1	Type of the RC fill	Obtu	ration of	the r		
2.7	1	Managamant	Endo	dontia	Emorgo		
- /	1	Endodontic Emerge	Treat	ment	Lineige		
		cases	iicu				
28	1	Define of the ferrul	Resto	oration			
		Intracoronal	Endo	dontically	Trea		
		restoration	Teetl	1			
		Exstracoronal					
29	1	Define and type	Endo	dontic-Per	iodonta		
		Endodontic-	Relat	tions	iouonia		
		Periodontal					
		Relations					
30	1	Define To	Toot	h discoloi	ration		
		discoloration and ty	bleac	ching.			
11 0		of bleaching.					
II. CC		aluation					
Theoretica	al part: 60°	%		25%8 % 1st & 2nd Semester exammult2 % Presence and interaction			
Theoretical	exams incl	lude essay questions ar	nd mult				
choices to	measure th	ne student's understand	ling of		15 % Mid. Year Exam		
scientific m	aterial and	his ability to express h	nis ans	ans 35% Final Exam			
correctly.\							
Practical p	oart 40%			15%	11% cli	nical work	
					2% Activity		
					2% Seminar		
				25% Fina	al Exam	: in the form of slides contain	
				questions	of a	a practical nature and m	
				questions			
				& clinical	work.		
12. Le	arning a	nd Teaching Reso	urces				
Required 1	textbooks	(curricular books, if ar	ıy)				
Main refer	ences (so	urces)	,	• Ph	illips'	Science of Dental Materia	
	(/		Kenr	neth Ar	nusavice.	
				• End	lodont	tics, Ingle	
				• cot	ampor	ary in fixed prosthesis.	
Recomme	nded boo	ks and references ((scient	ific • Har	ndbool	k of Endodontics by Benc	
			•				

journals	s, reports)					
Electror	nic References, Webs	Ites				
		Course Descriptio	n			
			Cour	se Nar	ne	.38
				Crown	and b	ridge
			Course CodeI	DNK3-	FP	.39
			Semeste	er / Ye	ear	.40
					20	24-202
		The history of prepara	tion of this des	scripti	on	.41
					2	024-2-
			Att	endan	ce For	$\frac{ms.42}{mo}$
	I	Number of Credit Hours (To	otal) / Number	of Uni	ts (Tot	al).43
			, 		hou	irs
	Course Administr	ator Name: Ass.Prof. Dr. monadle.	Monadle Rao almansoor@a	uf Hae alkafee	di el.edu	.44 .iq
			Course C	bjectiv	ves	.45
eaching st	udents and training th	em on how to make fixed dental		(Course	Objective
10	Teeshing and L	prostheses.				
46.	reaching and Lo	earning 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 						
withi deve • Play	elopments. -based learning: St	udents learn by participating	g in fun activiti	es or		
 withi deve Play- comp 	elopments. -based learning: St petitions.	udents learn by participating	g in fun activiti	es or		
 withi deve Play complete Creation work 	elopments. -based learning: St petitions. ate a website with ec s, such as videos. p	udents learn by participating ducational content about crow	g in fun activiti ns and bridges dents can acces	es or		
 withi deve Play com Creation work this 	elopments. -based learning: Si petitions. ate a website with ea a, such as videos, pr content anytime, fro	udents learn by participating ducational content about crow resentations, and articles. Stu	g in fun activiti ns and bridges dents can acces	es or		
 withi deve Play com Crea work this 	elopments. -based learning: St petitions. ate a website with ec a, such as videos, pr content anytime, fro	udents learn by participating ducational content about crow resentations, and articles. Stu om anywhere.	g in fun activiti ns and bridges dents can acce	es or ss Course	e Struc	ture .48
withi deve Play com Crea work this	Learning method	udents learn by participating ducational content about crow resentations, and articles. Stu om anywhere.	g in fun activiti ns and bridges dents can acces	es or ss Course	e Struc Hours	ture .48

			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 constructionSteps in crown constructionComponents 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 impressionRequirements. of	Impression for crown and bridge	3	13

			an accepta Impressio Impressio	uble impression n materials n techniques	work:		
=	=		-Objective impressio an accepta Impressio Impressio	es of taking nRequirements. of able impression n materials n techniques	Impression for crown and bridge work (continued):	1	14
=	=		Definition types(pref made, and	a, objectives, Tabricated, custom- laboratory-made)	Provisional restoration:	2	15
=	=		Definition types(pref made, and	, objectives, abricated, custom- laboratory-made)	Provisional restoration (continued)	1	16
=	=		Advantage definition material, t producing	es of working cast, of die, types of die techniques of die	Working cast and dies:	2	17
=	=		Advantage definition material, t producing	es of working cast, of die, types of die techniques of die	Working cast and dies (continued):	1	18
=	=		Types, tec	hniques and spruing	Waxing.	1	19
=	=		Materials, eliminatio	, techniques and wax	Investing.	1	20
=	=		Alloys, in and techni	struments, machines	Casting.	1	21
=	=		Steps, mar and techni	terials, instruments iques used	Finishing of the casting:	1	22
=	=		Steps, inst considerat	truments and clinical tions	Clinical try-in	1	23
=	=		Types of c cementati restoration	cements used for on of crown n.	Cementation:	1	24
					Course	Evaluati	on .49
%8 first a semester e	nd second exam	T	% 25 heoretical ual Quest	Theoretical exa	Theo ms include various q udina multiple choice	pretical p uestions, es to mec	art: 60% including usure the
attendo interactic ad	ance and %2 on during the cademic year			student's understanding the extent to which he correctly. Tt may be in		ntific mat express his quarterly	erial and is answer v or daily
Mid-Ye	ar Exam %15				S	hort or o	ral tests
		Final I	Exam %35				
Р	ractical %11		% 15		F	Practical	part 40%

Requierment	Practical		
attendance and %2 interaction	Annual Quest		
In-Laboratory %2 Seminar			
%25 of the final practico form of slides containing practical nature and moc	al exam in the questions of a k questions		
1. Learning and Tea	aching Resourc	es	
		.2	
		Required textbooks (methodology, if any)	
Contemporary Fixed Prosthodontics		Main references (sources)	
Sturdivant's art and sciend operative dentistry	ce of Reco	Recommended books and references (scientific journals, reports)	
Health internetwork	.net	Electronic References, Websites	

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)

Ih	Theory:1h/wk. (total 30h)				
7. Co	7. Course administrator's name				
Na	Name: A. Lect. Mustafa Fares shubbar				
En	Email: mustafashubbar@alkafeel.edu.iq				
Na	me: Ass	sist. Lect. Ghadee	er Shakir Shabaa		
En	nall: Gn	adeer.shakir@al	ikafeel.edu.iq		
8. Co	ourse Ot	ojectives			
Course Ob	jectives	 Educating students and training them to work den restorations. Boot canal treatment (teaching and training) 			
9. Te	aching	and Learning Stra	ategies	0	
Strategy	 Applying education based on individual differences in teach the dental industry subject: The teacher can modify educational content or teaching methods to meet the needs different students. For example, a teacher can provide methods to students who are having difficulty understand certain material. Brainstorming-based learning: by asking questions that can discussed and concluded Create a website containing educational content about the der industry, such as videos, presentations, and articles. Students access this content anytime, anywhere. 				
10. Cou	rse Stru	<u>ccess this conter</u> cture (Theory)	nt anytime, anywhere).	
10. Cour	rse Stru Hours	ccess this conter cture (Theory)	nt anytime, anywhere	Learning	Evaluation
10. Cour Week	rse Stru Hours	ccess this conter cture (Theory) Required Learni	nt anytime, anywhere	Learning	Evaluation
10. Court Week	arse Stru Hours	ccess this conter cture (Theory) Required Learni Outcomes	I and Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Opera Dentistry.	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam
10. Court Week	arse Stru Hours	ccess this conter cture (Theory) Required Learni Outcomes I definition of enamel its type I definition of enamel its type	Ing Unit or subject name I and Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Opera Dentistry. I and Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Opera Dentistry.	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam
10. Cour Week	arse Stru Hours	ccess this conter cture (Theory) Required Learni Outcomes 0utcomes definition of enamel its type definition of enamel its type definition of enamel its type definition of dentini its type definition of dentini	nt anytime, anywhere ing Unit or subject name I and Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Opera Dentistry. I and Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Opera Dentistry. and Biologic Considerations of Dentistry.	Learning method Powerpoint & Word	Evaluation method Quiz & Semester exam

			Clinical Significance	
			111 Operative Dentistry	
5	1	_ Diagnosis & Treatn	Patient Evaluation ,	
		Planning		
6	1	(Diagnosis & treatn 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 – Relea: Materials	
13	3	Inlays and Onlays (materials ,techniques) CAD/CAM Technology	Indirect aesthetic adhesive restorations	
14	1	(Composite)	Direct tooth-cold restorations	
15	2		Mid year exam	
16	1		Dental Laser	
17	2		Application of Laser Conservative Dentistry	
18	1		Indirect tooth-cold restorations	
19	1	Laboratory-processed composite inlays and onla	Techniques of posterior composite Inlay/Onlay restoration system	
20	1		Ceramic veneers, in 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	

can	al preparation	
11. Course Evaluation		
Theoretical part: 60%	25% 8 % 1st & 2nd Semester exam	
Theoretical exams include essay questions and mult	2 % Presence and interaction	
choices to measure the student's understanding of	15 % Mid. Year Exam	
correctly.\	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 (scientif	Handbook of Endodontics by Benc	
journals, reports)		
Electronic References, Websites		

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

5. Av	Available Attendance Forms:				
Traditional Learning					
6. Nu	6. Number of Credit Hours (Total) / Number of Units (Total)				
Th	eory:1h	/wk. (total 30h)			
7. Co	ourse ac	Iministrator's name			
Na	ime: A. p	orof. Dr. Mustafa ahn	ned		
En	nail: <u>a m</u>	ustafa.ahmed@alkaf	feel.edu.iq		
8. Co	ourse Ob	jectives			
Course Ob	jectives	 Teaching stu sequence of sto Developing s 	dents how to ma eps. etudents' skills in	ke removable dealing with	prosthesis a references a
	 showing the personality of the respected doctor. Encouraging students to study and make rem prosthesis of all kinds. 			tor. ake removal	
9. Te	aching a	Ind Learning Strateg	ies		
Strategy	• th ed d st co •	 Applying education based on individual differences in teaching the dental industry subject: The teacher can modify the educational content or teaching methods to meet the needs different students. For example, a teacher can provide mode support to students who are having difficulty understands certain material. Brainstorming-based learning: by asking questions that can 			ces in teachi n modify t t the needs provide mc understandi ns that can
	d • ir a	 discussed and concluded Create a website containing educational content about the demindustry, such as videos, presentations, and articles. Students caccess this content anytime, anywhere. 			oout the den s. Students c
10. Cou	rse Struc	ture (Theory)			
Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
		Outcomes	name	method	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 Diagno	Prosthodontics		
5	1	Mouth preparation abutment tooth preparat	Prosthodontics		
6	1	To be continued	Prosthodontics		

					1	· · · · · · · · · · · · · · · · · · ·
7	1	Impression materials techniques for R PD	Prosthod	ontics		
8	1	To be continued	Prosthod	ontics		
9	1	Support in FEE RPD	Prosthod	ontics		
10	1	techniques altered cast metal check	Prosthod	ontics		
11	1	Occlusion in rpd	Prosthod	ontics		
12	1	Jaw relation in rpd	Prosthod	ontics		
13	1	Prep prosthetic surgery	Prosthod	ontics		
14	1	To be continued	Prosthod	ontics		
15	1	Diagnosis and treatm plane CD	Prosthod	ontics		
16	1	To be continued	Prosthod	ontics		
17	1	Impression in CD	Prosthod	ontics		
18	1	To be continued	Prosthod	ontics		
19	1	TMJ and mandibu movement	Prosthod	ontics		
20	1	Jaw relation-vertical	Prosthod	ontics		
21	1	To be continued	Prosthod	ontics		
22	1	Jaw relation-horizontal	Prosthod	ontics		
23	1	To be continued	Prosthod	ontics		
24	1	Try in stage in CD	Prosthod	ontics		
25	1	To be continued	Prosthod	ontics		
26	1	Insertion of CD	Prosthod	ontics		
27	1	Adjustments of CD	Prosthod	ontics		
28	1	relining and rebasing in RPD	Prosthod	ontics		
29	1	Repair of fractured RPD	Prosthod	ontics		
30	1	Esthetic denture materia	Prosthod	ontics		
11. Co	ourse Eva	luation				
Theoretica	l part: 60%	/o	25%	6 % 1s	t & 2nd Semeste	er exam
Theoretical	Theoretical exams include essay questions and m		muli	2 % Presence and interaction		action
choices to	choices to measure the student's understanding o		g of	2 % Quizs		
scientific material and his ability to express his an		ans				
correctly.			15 % Mid. Year Exam			
		35% F	inal Exa	m		
Practical p	art 40%		15%	15% 10% clinical work		
				5 % Ac	tivity	
					-	
			250/ 1	ingl Evo	me in the form of	of elidee contain
			2370			

	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/ SECOI 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 branchName of the scientific branchFirst stageEducational levelDentistryspecialtyDental anatomyName of the course in ArabicDental anatomyName of the course in EnglishDental anatomyName of the course in English60 hoursNumber of theoretical hours90 hoursNumber of practical hours		
First stageEducational levelDentistrySpecialtyDental anatomyName of the course in ArabicDental anatomyName of the course in EnglishDental anatomyName of the course in English60 hoursNumber of theoretical hours90 hoursNumber of practical hours90 hoursUnits number	Name of the scientific branch	Conservative and prosthetic branch
DentistryspecialtyDental anatomyName of the course in ArabicDental anatomyName of the course in EnglishDental anatomyName of the course in English60 hoursNumber of theoretical 	Educational level	First stage
Dental anatomyName of the course in ArabicDental anatomyName of the course in EnglishDental anatomyNumber of theoretical hours60 hoursNumber of practical hours90 hoursNumber of practical hours90 hoursUnits number	specialty	Dentistry
Dental anatomy Name of the course in English 60 hours Number of theoretical hours 90 hours Number of practical hours 90 hours Units number	Name of the course in Arabic	Dental anatomy
60 hours Number of theoretical hours 90 hours Number of practical hours 90 hours Units number	Name of the course in English	Dental anatomy
90 hours Number of practical hours Units number	Number of theoretical hours	60 hours
Units number	Number of practical hours	90 hours
	Units number	
teacher's name in علي فلاح حسن	teacher's name in	علي فلاح حسن

مصطفى فارس مشكور	Arabic
Ali Falah Hasan	teacher's name in
Mustafa Faris Mashkoor	English
Assistance lecturer	Academic Title
Alirfeash1994@gmail.com	University email
mustafashubbar@alkafeel.edu.iq	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.	
 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 Training 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 of the Buccal & Mesial Aspects of P. Mand. Right 1 st Molar 27 Description, Carving of the Buccal & Mesial Aspects of P. Mand. Right 1 st Molar 27 Description, Carving of the Buccal & Mesial Aspects 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 		
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	

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 Ol	bjectives
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

concepts in the laboratory.

scientific developments in the field of medical physics - applying theoretical

10. Course Structure

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

	1		r	1	
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				1
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	thera	ру		
20-21	2 theoretical + 2 practical	Light in medicine: Light nature, (Reflection,	Light in medicine: Light nature, (Reflection,		-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	e Evaluation					
The ar	nnual endeavor	is 40% (theoretica	al = 30	and practic	al = 10) and the fina	l exam is
50% (theoretical = 35	and practical = 23	5)			
_earn	ing and Teachi	ng Resources				
Require	ed textbooks (curric	cular books, if any)				
Main references (sources)			-	 Health-Physics-by-Herman-Cember (4th edition) Health Physics and Radiation Science 		
Recom	mended books s, reports…)	and references	(scien			
Electronic References, Websites				https://www.fr	eebookcentre net/Physic	s/Medical-
https://journals.lww.com/health-

physics/pages/default.aspx

50. Course Name:	
Computer	
51. Course Code:	
Half yearly	
52. Semester / Year:	
2023-2024	
53. Description Prep	aration Date:
54.Available Attendance Fo	orms:
Full attendance	
55.Number of Credit Hours	s (Total) / Number of Units (Total)
60 hours – 4 units	
56. Course administ	trator's name (mention all, if more than one name)
Name: Asst.Lec. Amnee	en Naji Fadhel
Email: amneen.naji@al	kafeel.edu.iq
57. Course Objectives	S
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 Lea	arning 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	Unit or subject	Learning method	Evaluation
		Outcomes	name		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 +	DOS, External	DOS, External	a Power point lecture	
	2 practical	command. Practical Application	command. Practical Application	/practical application	short
					exam
10	2 theoretical +	Practical	Introduction about	a Power point lecture	short
	2 practical	Application	wherosoft word.	/ practical application	51101 0
					exam
11	2 theoretical +	Practical	Microsoft word, nev	a Power point lecture	1 .
	2 practical	Application	save, save as, option font, paragraph	/practical application	short
			10, p		exam
12	2 theoretical +	Practical Application	Microsoft word,	a Power point lecture	
	2 practical		insert, table, picture	/practical application	short
			, shape		exam
13	2 theoretical +	Practical Application	Microsoft word, sma	a Power point lecture	
	2 practical		art, header and footer page number	/practical application	short
			rooter, page number		exam
14	2 theoretical +	Practical Application	Microsoft word,	a Power point lecture	
	2 practical		border, section	/practical application	short
			oreaks, print		exam
15	Mid Enou				
	MIU EXAIII				
16	2 theoretical +	Introduction about	Introduction about	a Power point lecture	
	2 practical	Microsoft power	Microsoft power	/practical application	short
		point	point		exam
17	2 the eretical	Dreatical Application	nowan noint incom	a Douron point locture	
1/	2 meoretical + 2 practical	Fractical Application	slide, format	/practical application	short
			background, insert		ovam
18	2 theoretical +	Practical Application	power point,	a Power point lecture	EXAIII
	2 practical	11	animations	/practical application	short
					exam
19	2 theoretical +	Practical Application	power point	a Power point lecture	
	2 practical	r menear r apprearion	transition	/practical application	short
					exam

20	2 theoretical +	Practical Application	power point, types	a Power point lecture	
	2 practical		of show	/practical application	short
					exam
21	2 theoretical +	Introduction about	Introduction about	a Power point lecture	
	2 nractical	Microsoft excel	Microsoft excel	/practical application	short
				/ pructicul application	
					exam
22	2 theoretical +	Practical Application	Microsoft excel. file	a Power point lecture	
	2 practical	r r	home and other lists	/practical application	short
	1				
					exam
23	2 theoretical +	Practical Application	Microsoft excel	a Power point lecture	
	2 practical	- menemi reprieution	Format the cells,	/practical application	short
	Ĩ		insert row and		
			column		exam
24	2 theoretical +	Practical Application	Microsoft excel	a Power point lecture	
	2 practical	i i i i i i i i i i ppirourion	functions	/practical application	short
	1				
					exam
25	2 theoretical +	Practical Application	Microsoft excel	a Power point lecture	
	2 practical	i i i i i i i i i i ppirourion	chart	/practical application	short
	r			/r ···· ·rr ···	
					exam
26	2 theoretical +	Introduction about	Introduction about	a Power point lecture	-h - 4
	2 practical	internet and e-mail	internet and e-mail	/practical application	snort
					exam
27					
27	2 theoretical +	Practical Application	Internet, types of	a Power point lecture	chort
	2 practical		connection, internet	/ practical application	SHOLL
			apprication		exam
28	2 theoretical +	Practical Application	Internet, browsers	a Power point lecture	ala a d
	2 practical			/practical application	snort
					exam
29	2 theoretical +	Practical Application	Internet, e-mail.	a Power point lecture	
	2 practical	rr	create new e-mail,	/practical application	short
			send message		
					exam

30	2 theoretical + Practical A 2 practical		Practical Applic	cation	E-gover	nment	a /I	Power point lecture practical application	short exam
Course	Course Evaluation								
Term test1+2 La		La	boratory1+2	ory1+2 Quiz		es Projects		Final (theory +p	ractical)
10+2	10=20		5+5=10		5	5	5 25+35=60		0
60. [pre	Distributing eparation, d	the aily	score out of 100 oral, monthly, or	acco r writ	rding to t tten exan	the tasks ass 1s, reports	sig e	ned to the student su tc	ich as daily
Learnii	ng and Te	ach	ing Resource	S		•			
Required	d textbooks	(curr	icular books, if ar	ny)					
Main ref	erences (so	urces	s)		Co	Computer Fundamentals			
Recomm	nended bo	oks	and reference	es	(scien				
journals,	reports)								
Electron	ic Reference	es, N	/ebsites		wv	vw.google.co	om		

61.	Course Name:						
Gei	General Pathology						
62.	Course Code:						
Hal	f yearly						
63.	Semester / Year:						
202	23-2024						
64.	Description Preparation Date:						
65.Av	ailable Attendance Forms:						
Ful	I attendance						
66.Nu	mber of Credit Hours (Total) / Number of Units (Total)						
60	hours – 4 units						
67.	Course administrator's name (mention all, if more than one name)						
Na	me: Liwaa Husayn Mahdi, Ahmad Hatif Al-amin						

	Email: Liwaa.Al	lkulabi@	ouokufa.eo	du.iq				
68.	Course C	bjective	S					
Course	Objectives		• Und	derstanding general pa	athology in dentistry.			
			• Idei	ntify the basics of dise	eases and their mechanis	sms.		
			• Idei	ntify the basic concep	ts of disease mechanism	IS		
69.	Teaching	and Lea	arning Stra	ategies				
Strategy			Interac	tive lectures.				
			Group	discussions.				
			Practic	al lessons in the labo	ratory.			
			Case s	studies and reports.				
			Using	modern educational te	echnologies			
70. Co	ourse Structure							
70. Co Week	ourse Structure	Require	d	Unit or subject	Learning method	Evaluation		
70. Co Week	ourse Structure Hours	Require Learning	d d	Unit or subject name	Learning method	Evaluation method		
70. Co Week	Hours	Require Learning Outcom	d g es	Unit or subject name	Learning method	Evaluation method		
70. Co Week	Hours 2 theoretical + 2 practical	Require Learning Outcom Underst Patholo	d g es cand gy Lab.	Unit or subject name Introduction to Pathology Lab.	Learning method a Power point lecture/practical	Evaluation method		
70. Co Week	Hours 2 theoretical + 2 practical	Require Learning Outcom Underst Patholo Histote	d g es cand gy Lab. chniques	Unit or subject name Introduction to Pathology Lab. Histotechniques	Learning method a Power point lecture/practical application	Evaluation method short		
70. Co Week	Hours 2 theoretical + 2 practical	Require Learning Outcom Underst Patholo Histote	d g es cand gy Lab. chniques	Unit or subject name Introduction to Pathology Lab. Histotechniques	Learning method a Power point lecture/practical application	Evaluation method short exam		
70. Co Week	Hours 2 theoretical + 2 practical	Require Learning Outcom Underst Patholo Histote	d g es cand gy Lab. chniques	Unit or subject name Introduction to Pathology Lab. Histotechniques	Learning method a Power point lecture/practical application	Evaluation method short exam		
 70. Co Week 1 2 	Hours 2 theoretical + 2 practical 2 theoretical + 2 practical + 2 practical +	Require Learning Outcom Underst Patholo Histote Underst Cellular	d g es cand gy Lab. chniques	Unit or subject name Introduction to Pathology Lab. Histotechniques Cellular Injury and death	Learning method a Power point lecture/practical application a Power point lecture /practical application	Evaluation method short exam short		
 70. Co Week 1 2 	Durse Structure Hours 2 theoretical + 2 practical 2 theoretical + 2 practical	Require Learning Outcom Underst Patholo Histote Underst Cellular death	d g es cand gy Lab. chniques canding Injury and	Unit or subject name Introduction to Pathology Lab. Histotechniques Cellular Injury and death	Learning method a Power point lecture/practical application a Power point lecture /practical application	Evaluation method short exam short		
70. Co Week 1	Hours 2 theoretical + 2 practical 2 theoretical + 2 practical + 2 practical	Require Learning Outcom Underst Patholo Histote Underst Cellular death	d g es cand gy Lab. chniques canding Injury and	Unit or subject name Introduction to Pathology Lab. Histotechniques Cellular Injury and death	Learning method a Power point lecture/practical application a Power point lecture /practical application	Evaluation method		
70. Co Week 1 2 3	Hours 2 theoretical + 2 practical 2 theoretical + 2 practical 2 theoretical + 2 practical	Require Learning Outcom Underst Patholo Histote Underst Cellular death Underst Cellular	d g es cand gy Lab. chniques canding Injury and canding adaptation	Unit or subject name Introduction to Pathology Lab. Histotechniques Cellular Injury and death Cellular adaptations	Learning method a Power point lecture/practical application a Power point lecture /practical application a Power point lecture /practical application	Evaluation method short exam short exam		
70. Co Week 1 2 3	Hours 2 theoretical + 2 practical 2 theoretical + 2 practical 2 theoretical + 2 practical 2 theoretical + 2 practical	Require Learning Outcom Underst Patholo Histote Underst Cellular death Underst Cellular	d g es cand gy Lab. chniques chniques canding Injury and canding adaptation	Unit or subject name Introduction to Pathology Lab. Histotechniques Cellular Injury and death Cellular adaptations	Learning method a Power point lecture/practical application a Power point lecture /practical application a Power point lecture /practical application	Evaluation method		
70. Co Week 1 2 3	Hours 2 theoretical + 2 practical 2 theoretical + 2 practical 2 theoretical + 2 practical	Require Learning Outcom Underst Patholo Histote Underst Cellular death Underst Cellular	d g es cand gy Lab. chniques chniques	Unit or subject name Introduction to Pathology Lab. Histotechniques Cellular Injury and death Cellular adaptations	Learning method a Power point lecture/practical application a Power point lecture /practical application a Power point lecture /practical application	Evaluation method		
70. Co Week 1 2 3	Hours 2 theoretical + 2 practical	Require Learning Outcom Underst Patholo Histote Underst Cellular death Underst Cellular	d g es and gy Lab. chniques chniques canding Injury and canding adaptation	Unit or subject name Introduction to Pathology Lab. Histotechniques Cellular Injury and death Cellular adaptations	Learning method a Power point lecture/practical application a Power point lecture /practical application a Power point lecture /practical application a Power point lecture /practical application	Evaluation method		
70. Co Week 1 2 3 4	Durse Structure Hours 2 theoretical + 2 practical 2 theoretical + 2 practical	Require Learning Outcom Underst Patholo Histote Underst Cellular death Underst Cellular Underst Cellular	d g es and gy Lab. chniques chniques canding Injury and canding adaptation	Unit or subject name Introduction to Pathology Lab. Histotechniques Cellular Injury and death Cellular adaptations Intracellular accumulation	Learning method a Power point lecture/practical application a Power point lecture /practical application a Power point lecture /practical application a Power point lecture /practical application	Evaluation method		

5	2 theoretical + 2 practical	Understanding Pathologic calcification	Pathologic calcification	a Power point lecture /practical application	short
		calementon			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	Chronic Inflammation	a Power point lecture /practical application	short
		Innammation			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	Hemodynamic disorders	a Power point lecture /practical application	short
		disorders			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	Chromosomal anomalies	a Power point lecture /practical application	short
		anomanes			exam
13	2 theoretical + 2 practical	Understanding Neoplasia –	Neoplasia – introduction	a Power point lecture /practical application	short
		Introduction			exam
14	2 theoretical + 2 practical	Understanding Types of neoplastic	Types of neoplastic tumors	a Power point lecture /practical application	short
		uniors			exam
15	2 theoretical + 2 practical	Understanding Characteristic features of benign	Characteristic features of benign and malignant	a Power point lecture /practical application	short
		and malignant	tumors		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 theoreti	cal +	Understandin	lg	Occupa	ational	a Power point lecture	ala aut
	2 practica	1	The Occupatio	nal	disease	e	/practical application	short
			uisease					exam
26	2 theoreti	cal +	Understandin	ıg The	Obesity	y and their	a Power point lecture	
	2 practica	1	Obesity and their e		effects on human		/practical application	short
			health		ileann			exam
27	2 theoreti	cal +	+ Understanding		Nutritic	onal disorder	a Power point lecture	
	2 practica	1	The Nutritiona	ıl	and imb	balance	/practical application	short
		i						exam
28	2 theoreti	cal +	Understandin	ıg	Burn ef	ffects with	a Power point lecture	
	2 practica	1	Burn effects w	ith	hypo an	nd hypertherr	/practical application	short
			hyperthermia c human health	on	on num	ian nealth		exam
29	2 theoreti	cal +	Understandin	ıg	Electric shock		a Power point lecture	
	2 practica	1	Electric shock	effec	effects on human		/practical application	short
			on human body	y neai	body health			exam
30	2 theoreti	cal +	Preventive		Prevent	tive	a Power point lecture	
	2 practica	1	measures again	nst	measures against		/practical application	short
			pollutions		pollutio	ons		exam
			1					
Course	e Evaluatio	n						
Course Term	e Evaluation test1+2	n Lab	ooratory1+2	Qu	ıizzes	Projects	Final (theory +p	ractical)
Course Term 10+	e Evaluation 1 test1+2 -10=20	n Lab	ooratory1+2 5+5=10	Qu	uizzes 5	Projects 5	Final (theory +p 25+35=6	ractical) 0
Course Term 10+ 71.	e Evaluation test1+2 -10=20 Distributing	n Lab the s	ooratory1+2 5+5=10 core out of 100 ral_monthly_ou	Qu accor	iizzes 5 rding to	Projects 5 the tasks ass	Final (theory +p 25+35=6 signed to the student su	ractical) 0 1ch as daily
Course Term 10+ 71. pr Learni	e Evaluation test1+2 - 10=20 Distributing reparation, d ing and Te	n Lab the s aily o achi	ooratory1+2 5+5=10 core out of 100 oral, monthly, on ng Resource	Qu accor r writ	iizzes 5 rding to ten exar	Projects 5 the tasks ass ms, reports	Final (theory +p 25+35=6 signed to the student su . etc	ractical) 0 1ch as daily
Course Term 10+ 71. pr Learni	e Evaluation test1+2 - 10=20 Distributing reparation, d ing and Te ed textbooks	n Lab the s aily o achi	oratory1+2 5+5=10 core out of 100 rral, monthly, or ng Resource	Qu accor r writ es	izzes 5 rding to ten exar	Projects 5 the tasks ass ms, reports	Final (theory +p. 25+35=6 signed to the student su . etc	ractical) 0 1ch as daily
Course Term 10+ 71. pr Learni Require Main re	e Evaluation test1+2 - 10=20 Distributing reparation, d ing and Te ed textbooks ferences (sou	n Lab the s aily o achi (curric urces)	oratory1+2 5+5=10 core out of 100 ral, monthly, or ng Resource	Qu accor r writ s ny)	izzes 5 rding to ten exar	Projects 5 the tasks ass ms, reports	Final (theory +p 25+35=6 signed to the student su . etc	ractical) 0 1ch as daily
Course Term 10+ 71. pr Learni Require Main re	e Evaluation test1+2 - 10=20 Distributing reparation, d ing and Te ed textbooks ferences (souther mended bo	n Lab the s aily o achi (curric urces) oks	oratory1+2 5+5=10 core out of 100 ral, monthly, or ng Resource cular books, if an and reference	Qu accor r writ s ny) es (1izzes 5 rding to ten exar	Projects 5 the tasks ass ms, reports	Final (theory +p 25+35=6 signed to the student su . etc pathology 2018 eneral Pathology 2018	ractical) 0 1ch as daily
Course Term 10+ 71. pr Learni Require Main re Recomr journals	e Evaluation test1+2 - 10=20 Distributing reparation, d ing and Te ed textbooks ferences (south mended books, reports)	n Lab the s aily o achi (curric urces) oks	oratory1+2 5+5=10 core out of 100 oral, monthly, or ng Resource cular books, if an and reference	Qu accor r writ es ny) es (1izzes 5 rding to ten exar	Projects 5 the tasks ass ms, reports	Final (theory +p 25+35=6 signed to the student su . etc pathology 2018 eneral Pathology 2018	ractical) 0 1ch as daily

72.	Course N	ame:							
Physi	ology								
73. Course Code:									
Half	yearly								
74.	Semester	· / Year:							
2023	-2024								
75.	Descripti	on Prep	aration Date	:					
76 1 4	labla Attan	danca Ec							
Full a	attendance		<u>11115.</u>						
77.Num	ber of Crea	lit Hours	(Total) / Nu	mber of Units (Tota	1)				
60 h	ours – 4 ui	nits	() / /	(-)				
78.	Course a	administ	rator's name	e (mention all, if m	ore than or	ne name)			
Nam	e: Asst.Pro	of. Husse	in Abdullah	du ia					
Lilla	1 IIUSSEII	1.auuuna		uu.iq					
79.	Course C	bjectives	3						
Course Objec	tives		Knowir	ng the function of each	bite of each o	rgan of the			
			blood	system					
			Knowir	ng the malfunction of e	ach home app	liance			
			• The fur	nctional relationship be	tween the diffe	erent			
			interna	l organs					
80.	Teaching	and Lea	arning Strateg	gies					
Strategy			Interactive	lectures.					
			Group dis Practical I	cussions. essons in the laborator	v				
			Case stud	ies and reports.	y.				
			Using mo	dern educational techno	ologies				
	-								
81. Course	Structure	D . 1							
Week Hou	irs	Require	d Learning	Unit or subject	Learning	Evaluation			
		Outcom	53	name	method	method			

1	2 hours	Understand the Blood	Blood	lecture	
I	2 110013	Composition	Composition	lecture	short exam
2-4	2 hours	Understanding RBCs: Definition	RBCs: Definition	lecture	short exam
5	2 hours	Understanding	Easthrongiasis	la atura	
5	2 nours	Erythropoiesis, Homeostasis, Death and Disposal	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 Physiolog	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	lecture	
		Acid-Base Balance			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 Physiolo	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)
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Main references (sources)	Human physiology
Recommended books and references (scien	Medical physiology
journals, reports)	
Electronic References, Websites	

82.	Course Name:			
Medi	cal biology			
83.	Course Code:			
Half	yearly			
84.	Semester / Year:			
2023	8-2024			
85.	Description Preparation Date:			

86.	Available Atten	dance Fo	orms:			
	Full attendance					
87.Number of Credit Hours (Total) / Number of Units (Total)						
	60 hours – 4 ui	nits				
88.	Course a	administ	rator's na	me (mention all,	if more than one na	ame)
]	Name: Asst.Pro Email: Hussein	of.Dr. Hus alikadhir	ssein Ali I n@alkafe	Kadhim, Asst.Lec. eel.edu.iq	. Dyaa Naji Hamza	
89.	Course O	bjectives	i			
Course	Objectives		• Und	derstanding the role o	f biology in dental scienc	ce.
			• Ide	ntify the important tis	sues and cells in oral and	d dental healt
			• App	oly basic concepts of	biology in the field of de	ntistry.
90.	Teaching	and Lea	rning Stra	ategies		
Strategy			Interac	tive lectures.		
			Group	discussions.		
			Practic	cal lessons in the labo	oratory.	
			Case s	studies and reports.		
91. Co	ourse Structure					
Week	Hours	Required	ł	Unit or subject	Learning method	Evaluation
		Learning	I	name		method
		Outcome	es			
1	2 theoretical +	Understa	and the	Introduction to	a Power point	
	2 practical	principle Medical	es of	medical and oral	lecture/practical	short
		and oral	biology	DIDIDEY	αρρητατιση	exam
2	2 theoretical +	Identify	cells	Prolaryotes and	a Power point lecture	
	2 practical	Minute a	nd real	Eukaryotes	/practical application	short
		cells				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	Gentics and its role in oral diseases	a Power point lecture /practical application	short
		diseases			exam
6	2 theoretical + 2 practical	Understanding Simple epithelial	Simple epithelial tissue	a Power point lecture /practical application	short
		tissue			exam
7	2 theoretical + 2 practical	Understanding Stratified	Stratified epithelial tissue	a Power point lecture /practical application	short
		epithelial tissue			exam
8	2 theoretical +	Understanding	Glandular epithelial tissue	a Power point lecture	short
	2 practical	epithelial tissue	epimenai tissue	/ practical application	exam
9	2 theoretical + 2 practical	Understanding General	General connective tissue	a Power point lecture /practical application	short
		types			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	Cell structure (oral mucus	a Power point lecture /practical application	short
		(orai mucus membrane)	membrane)		exam
13	2 theoretical +	Understanding	Plasma	a Power point lecture	
	2 practical	Plasma membrane	membrane structure	/practical application	short
		structure			exam

14	2 theoretical +	Understanding	Passage of materia	a Power point lecture	
	2 practical	Passage of materials across cell membra	across cell membrane	/practical application	short exam
15	2 the eretical	Understanding	Coll guala	a Douron point locture	
15	2 practical	Cell cycle	Cell Cycle	/practical application	short
					exam
16	2 theoretical + 2 practical	Understanding Mitosis and	Mitosis and Meiosis	a Power point lecture /practical application	short
		Meiosis			exam
17	2 theoretical +	Understanding	Cell energy	a Power point lecture	
	2 practical	Cell energy		/practical application	short
1.0					exam
18	2 theoretical +	Understanding	Nucleic acid	a Power point lecture	abort
	2 practical	NUCIEIC ACID DNA	DNA and RNA	/practical application	SHOLL
					exam
19	2 theoretical +	Understanding of	Introduction of	a Power point lecture	
	2 practical	parasitology	parasitology	/practical application	short
					exam
20	2 theoretical +	Understanding	Types of	a Power point lecture	
	2 practical	Types of parasites and host	parasites and host	/practical application	short
					exam
21	2 theoretical +	Understanding	Human	a Power point lecture	
	2 practical	Human amoebas, E. histolvtica.	amoebas, E. histolvtica.	/practical application	short
		E.coli, E.gingivalis	E.coli, E.gingivalis		exam
22	2 theoretical +	Understanding	Flagellates	2 Power point lecture	
	2 practical	Flagellates,	Giardia lamblia,	/practical application	short
		Trichomonas tenax, T.hominas, T.vaginalis	tenax, T.hominas, T.vaginalis		exam
23	2 theoretical +	Understanding	Leishmania ,	a Power point lecture	
	2 practical	Leishmania , cutaneous and vesi	cutaneous and vesi	/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 +	Understanding	Toxoplasma	a Power point lecture		
	2 practical	Toxoplasma gondii	gondii	/practical application	short	
					exam	
26	2 theoretical + 2 practical	Understanding Nemathelminthes, Ascaris	Nemathelminthes, Ascaris lumbricoides	a Power point lecture /practical application	short	
		lumbricoides			exam	
27	2 theoretical + 2 practical	Understanding Ancylostoma duodenale Entrobi	Ancylostoma duodenale, Entrobi vermicularis	a Power point lecture /practical application	short	
		vermicularis	vermeularis		exam	
28	2 theoretical + 2 practical	Understanding Platyhelminthes,	Platyhelminthes, Fasciola hepatica	a Power point lecture /practical application	short	
		Fasciola hepatica			exam	
29	2 theoretical +	Understanding	Schistosoma spp	a Power point lecture		
	2 practical	Schistosoma spp		/practical application	short	
					exam	
30	2 theoretical +	Understanding	Study various	a Power point lecture		
	2 practical	Study various	viruses	/practical application	short	
		viruses			exam	
Course						
Evalua						
n						
11						
92. E	Distributing the s	core out of 100 acco ral, monthly, or writ	rding to the tasks as ten exams, reports .	signed to the student su etc	ıch as daily	
Learnir	ng and Teachin	g Resources	, -F- 10 -			
93. F	Required textbooks	s (curricular books, if	any)			
Main ref	erences (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

94. Course Name:					
Histology	Histology				
95. Course Code:					
Half yearly					
96. Semester / Yea	ır:				
2023-2024					
97. Description Pr	eparation Date:				
98.Available Attendance	Forms:				
Full attendance					
99.Number of Credit Ho	ars (Total) / Number of Units (Total)				
60 hours – 4 units					
100. Course admin	istrator's name (mention all, if more than one name)				
Name: Israa Ali Abd- Email: israa ali abdal	Alameer amoor ib @gmail.com				
Course Objectives	That the student knows the basic information in science				
	• That the student knows the basic momation in science				
	Functions				
102 Teaching and I	earning Strategies				
102. reaching and t					
Strategy					
	Practical lessons in the laboratory.				
	Case studies and reports.				
	Using modern educational technologies				

103.	Course Structur	e			
Week	Hours	Required	Unit or subject	Learning method	Evaluation
		Learning	name		method
		Outcomes			
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:	Integumentary Syste skin glands, hair, an nails	a Power point lecture /practical application	short
		skin glands, hair, and nails			exam

9	2 theoretical +	Understanding	Hemopoiesis: bone	a Power point lecture	
	2 practical	Hemopoiesis: bone	Marrow	/practical application	short
		marrow			exam
10	2 theoretical +	Understanding	Factors operating	a Power point lecture	,
	2 practical	Hemopoiesis: blood cells	Hemopoiesis: blood cells	/practical application	short
					слат
11	2 theoretical + 2 practical	Understanding Circulatory system	Circulatory system	a Power point lecture /practical application	short
		System			exam
12	2 theoretical +	Understanding	Lymphoid system	a Power point lecture	
	2 practical	Lymphoid system		/practical application	short
					exam
13	2 theoretical +	Understanding	Lymphoid system	a Power point lecture	1
	2 practical	Lymphoid system		/practical application	short
					exam
14	2 theoretical +	Understanding	Lymphoid system	a Power point lecture	
	2 practical	Lymphoid system		/practical application	short
					exam
15	2 theoretical +	Understanding	nervous system	a Power point lecture	
	2 practical	nervous system		/practical application	short
					exam
16	2 theoretical +	Understanding	nervous system	a Power point lecture	1 /
	2 practical	nervous system		/practical application	short
					exam
17	2 theoretical +	Understanding	Endocrine system	a Power point lecture	
	2 practical	Endocrine system		/practical application	short
					exam
18	2 theoretical +	Understanding Endocrine system	Endocrine system	a Power point lecture	short
		Endoernie system		/ practical application	51101 0
					exam
19	2 theoretical +	Understanding	Endocrine system	a Power point lecture	
	2 practical	Endocrine system		/practical application	short
					exam

	1		1		
20	2 theoretical +	Understanding	Digestive system	a Power point lecture	,
	2 practical	Digestive system		/practical application	short
					ovam
					CAAIII
21	2 theoretical +	Understanding	Digestive system	a Power point lecture	
	2 practical	Digestive system	8	/practical application	short
					exam
22	2 theoretical +	Understanding	Digestive system	a Power point lecture	
	2 practical	Digestive system		/practical application	short
	-				
					exam
23	2 theoretical +	Understanding	Digestive system	a Power point lecture	
	2 practical	Digestive system	8	/practical application	short
	·	c .			
					exam
24	2 theoretical +	Understanding	female	a Power point lecture	
	2 practical	female	Reproductive	/practical application	short
	·	Reproductive	System		
		System			exam
25	2 theoretical +	Understanding	female	a Power point lecture	
	2 practical	female	Reproductive	/practical application	short
		Reproductive	System		
		System			exam
26					
26	2 theoretical +	Understanding	male	a Power point lecture	abort
	2 practical	male Poproductivo	System	/practical application	SHOLL
		System	System		exam
27		bystem h			
27	2 theoretical +	Understanding	male Roproductivo	a Power point lecture	chart
		Reproductive	System	/ practical application	511011
		System	by Stelli		exam
		-,			
28	2 theoretical +	Understanding	Special Sense	a Power point lecture	abort
	2 practical	Special Sense	Organs:	/practical application	SHOIT
		eve	сус		exam
29	2 theoretical +	Understanding	Special Sense	a Power point lecture	
	2 practical	Special Sense	Organs:	/practical application	short
		Organs:	eye		
		eye			exam

	2 theoretic 2 practical	cal + l	Understandin Special Sense Organs: ear	Ig	Special Organs	Sense :: ear	a F /p	Power point ractical app	lecture	short exam
Course	e Evaluatior	า								
Term	test1+2	Lab	oratory1+2	Qu	uizzes	Projects	5	Final (the	ory +p	ractical)
10+	10+10=20 5+5=10			5	5		25	5+35=6	0	
104.	Distributing	the s	core out of 100	accor	rdingto	the tasks as	sign	ed to the stu	udent su	ich as dai
pr Learni	eparation, da ng and Tea	aily o achi	ral, monthly, of ng Resource	r writ	ten exar	ns, reports .	et	С		
				.J						
Require	a textbooks (curric	cular dooks, it al	ny)		augirala has	in h	stology toxt	and atta	6
Recomm	nondod bo	irces)	and reference	06 (hobine basic			and alla	5
iournals	reports)	015		65 (μαι	lology		
Electron	ic Reference	s We	haitaa							
		<u>, , , , , , , , , , , , , , , , , , , </u>	Cours	se D	escrip	tion For	m			
1	· Course N	ame	Cours	se D	escrip	tion For	m			
1	Course N Medical Che	ame	Cours : try	se D	escrip	tion For	m			
1	Course N Medical Che Course Cod	ame emis le:	Cours : try	se D	escrip	tion For	m			
1 2. (Course N Medical Che Course Cod Half yearly	ame emis le:	Cours : try	se D	escrip	tion For	m			
1 2. (3.)	Course N Vedical Che Course Cod Half yearly Semester /	ame emis le: Yea	Cours : try r:	se D	escrip	tion For	m			
1 2. (3.)	<u>Course N</u> Medical Che Course Cod Half yearly Semester / 2023-2024	ame emis le: Yea	Cours : try r:	se D	escrip	tion For	m			
1 2. (3.) 4.)	<u>Course N</u> Medical Che Course Cod Half yearly Semester / 2023-2024 Description	ame emis le: Yea	Cours : try r: eparation Dat	se D	escrip	tion For	m			
1 2. (3. <u>2</u> 4. <u>1</u> 5. <u>2</u>	Course N Medical Che Course Cod Half yearly Semester / 2023–2024 Description	ame emis le: Yea	Cours : try r: eparation Dat dance Forms:	se D	escrip	tion For	m			
1 2. (3. (2 4.) 5	Course N Medical Che Course Cod Half yearly Semester / 2023–2024 Description Available A Full attenda	ame emis le: Yea <u>Yea</u> <u>ttene</u>	Cours : try r: eparation Dat dance Forms:	se D	escrip	tion For	m			
1 2. (3. (2. (2. (2. (2. (2. (2. (2. (2	Course N Medical Che Course Cod Half yearly Semester / 2023–2024 Description Available A Full attenda	ame emis le: Yea Yea ttend ance Cred	Cours : try r: eparation Dat dance Forms: lit Hours (Tot	se D ce:	escrip	tion For	m	al)		
1 2. (3. (4.) 5. , 6.)	Course N Medical Che Course Cod Half yearly Semester / 2023-2024 Description Available A Full attenda Number of 60 hours –	ame emis le: Yea Yea ttend ance Cred 4 ur	Cours : try r: eparation Dat dance Forms: lit Hours (Tot nits	se D	Number	tion For	m	al)		

8.	Course Objectiv	ves				
Course	Objectives	• Un	nderstan	ding the role of chemist	ry in dental science.	
		• Ap	oplying t	he basic concepts of ch	emistry in the field of dent	tistry
9.	Teaching and L	earning Stra	ategies	3		
Strateg	ý		Interac	tive lectures.		
			Group	discussions.		
			Practic	al lessons in the labo	ratory.	
			Case s	studies and reports.		
10. C	ourse Structure	Required		Unit or subject	Learning method	Evaluation
10. C Week	ourse Structure	Required		Unit or subject	Learning method	Evaluation
10. C Week	ourse Structure Hours	Required Learning Outcomes		Unit or subject name	Learning method	Evaluation method
10. C Week	ourse Structure Hours 2 theoretical + 2 practical	Required Learning Outcomes Understandin Base and Salt	ng Acid t	Unit or subject name Acid, Base and Salt	Learning method a Power point lecture/practical application	Evaluation method short exam
10. C Week	ourse Structure Hours 2 theoretical + 2 practical 2 theoretical + 2 practical	Required Learning Outcomes Understandin Base and Salt	ng Acid t	Unit or subject name Acid, Base and Salt salts, preparation of	Learning method a Power point lecture/practical application a Power point lecture	Evaluation method short exam
10. C Week	Urse Structure Hours 2 theoretical + 2 practical 2 theoretical + 2 practical	Required Learning Outcomes Understandin Base and Salt	ng Acid t ng salts, of salts	Unit or subject name Acid, Base and Salt salts, preparation of salts	Learning method a Power point lecture/practical application a Power point lecture /practical application	Evaluation method short exam short
10. C Week	Urse Structure Hours 2 theoretical + 2 practical 2 theoretical + 2 practical	Required Learning Outcomes Understandin Base and Salt	ng Acid t ng salts, of salts	Unit or subject name Acid, Base and Salt salts, preparation of salts	Learning method a Power point lecture/practical application a Power point lecture /practical application	Evaluation method short exam short exam
10. C Week 1 2	Urse Structure Hours 2 theoretical + 2 practical 2 theoretical + 2 practical 2 theoretical + 2 practical	Required Learning Outcomes Understandin Base and Salt Understandin preparation of Understandin	ng Acid t ng salts, of salts	Unit or subject name Acid, Base and Salt salts, preparation of salts	Learning method a Power point lecture/practical application a Power point lecture /practical application a Power point lecture	Evaluation method short exam short exam
10. C Week 1 2 3	Urse Structure Hours 2 theoretical + 2 practical 2 theoretical + 2 practical 2 theoretical + 2 practical	Required Learning Outcomes Understandin Base and Salt Understandin preparation of Understandin and electrolyte	ng Acid t ng salts of salts	Unit or subject name Acid, Base and Salt salts, preparation of salts Fluid and electrolyte	Learning method a Power point lecture/practical application a Power point lecture /practical application a Power point lecture /practical application	Evaluation method short exam short exam short
10. C Week 1 2 3	Urse Structure Hours 2 theoretical + 2 practical	Required Learning Outcomes Understandin Base and Sala Understandin preparation of Understandin and electrolyte	ng Acid t ng salts of salts	Unit or subject name Acid, Base and Salt salts, preparation of salts Fluid and electrolyte	Learning method a Power point lecture/practical application a Power point lecture /practical application a Power point lecture /practical application	Evaluation method short exam short exam short exam
10. C Week 1 2 3	Urse Structure Hours 2 theoretical + 2 practical 2 theoretical + 2 theoretical +	Required Learning Outcomes Understandin Base and Salt Understandin preparation of Understandin and electrolyte	ng Acid t ng salts of salts ng Fluic	Unit or subject name Acid, Base and Salt salts, preparation of salts Fluid and electrolyte Buffer-pH and	Learning method a Power point lecture/practical application a Power point lecture /practical application a Power point lecture /practical application a Power point lecture /practical application	Evaluation method
10. C Week 1 2 3	Urse Structure Hours 2 theoretical + 2 practical	Required Learning Outcomes Understandin Base and Salt Understandin preparation of Understandin and electrolyte	ng Acid t ng salts of salts ng Fluic	Unit or subject name Acid, Base and Salt Salts, preparation of salts Fluid and electrolyte Buffer-pH and Acid-Base Balance	Learning method a Power point lecture/practical application a Power point lecture /practical application a Power point lecture /practical application a Power point lecture /practical application	Evaluation method short exam short exam short exam

5	2 theoretical + 2 practical	Understanding acid- base balance	acid-base balance	a Power point lecture	short
	2 practicul	and blood pH	und blobd pri) practical application	exam
6	2 theoretical + 2 practical	Understanding Colloids and colloidal	Colloids and colloidal dispersions	a Power point lecture /practical application	short
		dispersions			exam
7	2 theoretical + 2 practical	Understanding Chirality in Biological	Chirality in Biological Systems	a Power point lecture /practical application	short
		Systems	5		exam
8	2 theoretical +	Understanding	concentration,	a Power point lecture	short
	2 practical	preparation of solutions	solutions	, practical application	exam
9	2 theoretical +	Pollution	Pollution	a Power point lecture	
	2 practical			/practical application	short
					exam
10	2 theoretical + 2 practical	Understanding Radiochemistry	Radiochemistry	a Power point lecture /practical application	short
					exam
11	2 theoretical +	Understanding Alkanes and	Alkanes and Cycloalkanes	a Power point lecture	short
		Cycloalkanes	Cyclourkales) practical application	exam
					chain
12	2 theoretical + 2 practical	Understanding Alkenes and	Alkenes and Alkynes	a Power point lecture /practical application	short
		Alkynes	5		exam
13	2 theoretical +	Understanding	Aromatic	a Power point lecture	
	2 practical	Aromatic	compounds	/practical application	short
		Compounds			exam
14	2 theoretical +	Understanding	Aromatic compounds in	a Power point lecture	short
	2 practical	compounds in Nature	Nature		exam
15	2 theoretical :	Undonator din a	Stanoing of	a Douron point lo struct	
15	2 practical +	Stereoisomers of	Carbon	/practical application	short
					exam

16	2 theoretical +	Understanding	Diastereomers	a Power point lecture	1.
	2 practical	Diastereomers		/practical application	short
					over
					exam
17	2 the eretical	Understanding	Alashala Dhanala	a Dawar paint la stura	
17	2 theoretical +	Alaphala Phanala	Alcohols, Phenois, Ethers and Thiols	a Power point lecture	short
	2 practical	Ethers and Thiols	(preparation	/ practical application	511011
		(preparation	(preparation, reactions)		exam
		reactions)			
18	2 theoretical +	Understanding	Carboxylic Acids	a Power point lecture	
	2 practical	Carboxylic Acids	And Their	/practical application	short
		And Their	Derivatives, part 1		
		Derivatives, part 1			exam
10		TT 1 - 14	0 1 1 1 1 1		
17	2 theoretical +	Understanding	Carboxylic Acids	a Power point lecture	chart
	2 practical	Carboxylic Acids	And I neir	/practical application	Short
		Allu Illell Derivatives part 2	Derivatives, part 2		exam
		Derivatives, part 2			exum
20	2 theoretical +	Understanding	Aldehydes and	a Power point lecture	
	2 practical	Aldehydes and	ketones	/practical application	short
		ketones			0.11.0.120
					exam
21	2 theoretical +	Understanding	Carbohydrates	a Power point lecture	
	2 practical	Carbohydrates	Curbonyurutos	/practical application	short
	- prototota			, practical application	
					exam
22	2 theoretical +	Understanding	Monosaccharide's	a Power point lecture	
	2 medical	Monosaccharide's	Wionosaccharide s	/practical application	short
				/ practical application	011010
					exam
23	2 the anatical :	Understanding	Disaaaharidaa	a Douron point la sturre	
23	2 uneoretical +	Disaccharides	Carbobydrates and	a rower point lecture	short
	2 practical	Carbohydrates and	oral health	/ practical application	311011
		oral health			exam
24					
24	2 theoretical +	Understanding Lipic	Lipids	a Power point lecture	-h - 4
	2 practical			/practical application	short
					evam
					CAUIII
25	2 theoretical +	Understanding	Derived lipids	a Power point lecture	
	2 practical	Derived lipids	The role of lipids in	/practical application	short
		The role of lipids in	teeth diseases		
		teeth diseases			exam

26	2 theoreti 2 practica	cal + l	Understanding	Prote	Protein	ns	a Power point lecture /practical application	short	
	- protection	-					, p	evam	
27			TT 1 1					слаш	
27	2 theoreti 2 practica	cal + 1	Understanding	Am11	Amino proteir	o acids Effects	a Power point lecture	short	
		1	on oral	i più	health	ii oli olui			
			health					exam	
28	2 theoreti	cal +	Nucleic Acids		Nucle	eic Acids	a Power point lecture	è	
	2 practica	1					/practical application	n short	
								exam	
29	2 theoreti	cal +	Understanding		Nucleo	osides,	a Power point lecture	2	
	2 practica	1	Nucleosides,		Nucleo	otides	/practical application	n short	
			Nucleotides					exam	
30	2 theoreti	cal +	Understanding	Diox	Dioxy	and ribo	a Power point lecture	<u>.</u>	
	2 practica	l	and ribo	DION	Nuclie	ec acids	/practical application	, short	
			Nucliec acids					exam	
Course	e Evaluatio	n						1	
Term	n test1+2	Lab	oratory1+2	Qı	uizzes	Projects	s Final (theory +p	oractical)	
10+	+10=20		5+5=10		5	5	25+35=0	5=60	
11.	Distributing	the s	core out of 100	acco	rdingto	o the tasks as	signed to the student s	uch as dail	
pr	reparation, d	aily o	ral, monthly, or	r writ	ten exa	ams, reports .	etc		
Learni	ing and Te	achi	ng Resource	S					
		(currio	cular books, if a	ny)					
Require	ed textbooks	Main references (sources)			C	Chemical Base	es of life		
Require Main re	ed textbooks	urces)			-	Textbook of Biochemistry ,			
Require Main re Recomi	ed textbooks eferences (sou mended bo	urces) oks	and reference	es ((scien T	Fextbook of Bi	ochemistry,		
Require Main re Recomi journals	ed textbooks eferences (sou mended bo s, reports)	urces) oks	and reference	es ((scien T	Fextbook of Bi General Che	ochemistry , mistry principle and	applicatior	
Require Main re Recomi ournals	ed textbooks eferences (sou mended bo s, reports)	urces) oks) and reference	es ((scien T C	Fextbook of Bi General Che norganic	ochemistry , mistry principle and	applicatior	

105. Course Name:

Microbiology

106	6. Course (Code:				
	Half yearly					
107	7. Semester	r / Year:				
	2023-2024					
108	3. Descript	ion Preparation	Date:			
109	9. Available	e Attendance For	ms:			
	Full attendance)				
110). Number	of Credit Hours	Total) / Number of	Units (Total)		
111	$\frac{1}{1}$	administrator's	name (mention all	if more than one r	name)	
	Name: Asst.Pro Email: Hussein	of.Dr. Hussein A alikadhim@alka	li Kadhim, Asst.Leo afeel.edu.iq	c. Hiba ahmed jawac	1	
112	2. Course C	Dbjectives				
Course	Objectives	• l	Inderstanding the role	of microbiology in denta	l science.	
		• 1	• Identify important microorganisms in oral and dental health.			
		• /	• Applying the basic concepts of microbiology in the			
			field of dentistry.			
113	3. Teaching	and Learning S	trategies			
Strategy	,	Inte	ractive lectures.			
		Gro	up discussions.	4		
		Pra	ctucal lessons in the lat	ooratory.		
		Usi	e studies and reports.	technologies		
				teomorogies		
114.	Course Structu	re				
Week	Hours	Required	Unit or subject	Learning method	Evaluation	
		Learning	name		method	
		Outcomes				

	2 theoretical +	Understand the	Bacteriology Lab	a Power point	
1	2 practical	Bacteriology Lab. safety rules	safety rules	lecture/practical application	short
					exam
2	2 theoretical +	Understanding	Morphology &	a Power point lecture	chort
	2 practical	Structure of	Bacteria The	/practical application	SHOLL
		Bacteria The microscope	microscope		exam
3	2 theoretical +	Understanding	Bacterial Cell Wall	a Power point lecture	
	2 practical	Bacterial Cell Wall	Sterilization	/practical application	short
		Stermzation			exam
4	2 theoretical +	Understanding	Bacterial growth	a Power point lecture	
	2 practical	Bacterial growth	C C	/practical application	short
					exam
5	2 theoretical +	Understanding	Physiology &	a Power point lecture	
	2 practical	Physiology &	Metabolism of	/practical application	short
		Metabolism of M.Os. Growth on	M.Os. Growth on media		exam
6	2 (1)	media		De la contra la secon	
0	2 theoretical +	Understanding Relation between	Relation between	a Power point lecture	chort
	2 practical	Relation Detween Racteria & Diseases	Types of culture	/ practical application	511011
		Types of culture	media		exam
7	2 theoretical +	Understanding	Ecology of the Oral	a Power point lecture	
	2 practical	Ecology of the Oral	Flora Sampling of	/practical application	short
		M.Os	WI.05		exam
8	2 theoretical +	Understanding	Oral Environment	a Power point lecture	
	2 practical	Oral Environment Cultivation	Cultivation methods	/practical application	short
		methods			exam
9	2 theoretical +	Understanding	Germ-free animals	a Power point lecture	
	2 practical	Germ-free animals	Bacterial	/practical application	short
		Bacterial identification	identification		exam
10	2 theoretical +	Understanding	Factors operating	a Power point lecture	
	2 practical	Factors operating on oral flora	on oral flora Bacterial staining	/practical application	short
		Racterial staining	0		exam

11	2 theoretical +	Understanding	Dental Plaque	a Power point lecture	
	2 practical	Dental Plaque Acid fast&special	Acid fast&special stain	/practical application	short
		stain			exam
12	2 theoretical +	Understanding	Dental Caries	a Power point lecture	-
	2 practical	Dental Caries	Biochemical	/practical application	short
		reaction	Teaction		exam
13	2 theoretical +	Understanding	Immunology,	a Power point lecture	
	2 practical	Immunology,	Specific &	/practical application	short
		Nonspecific	immune		exam
4	2 theoretical +	Understanding	The Concept of	a Power point lecture	
	2 practical	The Concept of	Immunity	/practical application	short
		Immunity	Antimicrobial		evam
		therapy	therapy		слат
15	2 theoretical +	Understanding	Immunity of the	a Power point lecture	
	2 practical	Immunity of the	Oral Cavity	/practical application	short
		Identification of M.Os	M.Os		exam
16	2 theoretical +	Understanding	The Streptococci	a Power point lecture	
	2 practical	The Streptococci Identification of	Identification of M.Os	/practical application	short
		M.Os			exam
17	2 theoretical +	Understanding	The Staphylococci	a Power point lecture	
	2 practical	The Staphylococci	Study of	/practical application	short
		Study of Staphylococci	Staphylococci		exam
18	2 theoretical +	Understanding	The Neisseriaceae	a Power point lecture	
	2 practical	The Neisseriaceae	Study of	/practical application	short
		Study of Streptococci	Streptococci		exam
19	2 theoretical +	Understanding The	The Corynebacteria	a Power point lecture	
	2 practical	Corynebacteria Corvnebacterium	Corynebacterium	/practical application	short
		y			exam
20	2 theoretical +	Understanding	The Mycobacteria	a Power point lecture	
	2 practical	The Mycobacteria Mycobacterium	Mycobacterium	/practical application	short
		ingeobacter fulli			exam

21	2 theoretical +	Understanding The	The	a Power point lecture	
	2 practical	Enterobacteriacea	Enterobacteriacea	/practical application	short
					exam
22	2 theoretical + 2 practical	Understanding The Bacilli & Clostridia G+	The Bacilli & Clostridia G+ Bacillus spp	a Power point lecture /practical application	short
		Bacillus spp			exam
23	2 theoretical +	Understanding The	The Lactobacilli G+	a Power point lecture	
	2 practical	Lactobacilli G+ Clostridium spp	Clostridium spp	/practical application	short
					exam
24	2 theoretical +	Understanding	Fusiform &	a Power point lecture	- b
	2 practical	Fusiform & Spirochaetes	Spirochaetes Klebsiella &	/practical application	short
		Klebsiella & Proteu	Proteus		exam
25	2 theoretical +	Understanding The	The Actinomyces	a Power point lecture	als a set
	2 practical	Actinomyces Actinomycetes	Actinomycetes	/practical application	snort
		The first of the second s			exam
26	2 theoretical +	Understanding The	The Actinobacillus	a Power point lecture	
	2 practical	Actinobacillus The Neisseriae	The Neisseriae	/practical application	short
					exam
27	2 theoretical +	Understanding The	The Bacteroides	a Power point lecture	
	2 practical	Bacteroides	Shigella	/practical application	short
		Singena			exam
28	2 theoretical +	Understanding	Miscellaneous	a Power point lecture	1
	2 practical	Miscellaneous Microorganisms	Microorganisms Pseudomonas	/practical application	short
20	2 the event cel	Pseudomonas	Vinalo au 9 Vinuago	a Davian a cint la atura	exam
29	2 theoretical + 2 practical	Virology & Viruses	Viruses	/practical application	short
		v 11 u S E S			exam
30	2 theoretical +	Understanding	Oral Mycology &	a Power point lecture	
	2 practical	Oral Mycology & Parasitology Fungi	Parasitology Fungi media	/practical application	short
		media			exam
Course	Evaluation				
000130					

Term	n test1+2	Laboratory1-	-2 Quizze	es Projects	Final (theory +practical)	
10-	+10=20	5+5=10	5	5	25+35=60	
115.	Distributing	g the score out of f	100 according	g to the tasks assi	gned to the student such as daily	
Learn	ing and Te	eaching Resou	rces	exams, reports	etc	
Require	d textbooks		if any)			
Main re			ii aiiy)		av Fighth Edition	
mainine		, alocoj		©2019 Essentia	I Microbiology for Dentistry 5th Ed	
				(2018)		
Recom	mended bo	ooks and refer	ences (scier	Jenni Punt;		
journals	s, reports)		(Sharon Stanford	•	
	,			Patricia Jones;		
				Judy Owen Laks	shman Samaranayake	
Electro	nic Referenc	es, Websites		www.google.cor	n	
		Co	urse Desc	ription Form	1	
1	• Course I	Name:				
	Biochemist	try				
2.	Course Co	de:				
	Half yearly	,				
3.	Semester	/ Year:				
	2023-2024	4				
4.	Descriptio	n Preparation	Date:			
5. Available Attendance Forms:						
	Full attend	lance				
6.	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)						
	Email: abdalsahebsaad@alkafeel.edu.iq					
	0					
8.	Course Ob	ojectives				
Course	Objectives	A	n introduction to	o biochemistry, und	erstanding its functions, the variables	

-							
		implicatio	ons, and methods for mea	suring its levels.			
9.	9. Teaching and Learning Strategies						
Strategy		Inter	ractive lectures.				
		Gro	up discussions.				
		Prac	Practical lessons in the laboratory.				
		Cas	e studies and reports.				
		Usir	ng modern educational t	echnologies			
10. Co	ourse Structure						
Week	Hours	Required	Unit or subject	Learning method	Evaluation		
		Learning	name		method		
		Outcomes					
1	2 theoretical +			a Power point			
	2 practical		Definition Classification	lecture/practical	short		
		Enzymology	Coenzymes	application	exam		
			Modes of Action				
2	2 theoretical +		Eastors Influencing	a Power point lecture			
	2 practical	Fnzymology	Enzyme Activity	/practical application	short		
		Enzymology	Enzyme Activation Enzyme Inhibition		exam		
3	2 the anotical			a Douron point la struct			
5	2 theoretical + 2 practical		To o mune	a Power point lecture /practical application	short		
	- practical	Enzymology	Clinical Enzymology	, Fraction approaction			
					exam		
4	2 theoretical +		Digestion of	a Power point lecture	-		
	2 practical	Carbohydrate	Carbohydrate Absorption of	/practical application	short		
		metabolism	Carbohydrate		exam		
			Glycolysis				
			Cori s Cycle				

C			Matabolic Esta of		
5	2 theoretical + 2 practical	Carbohydrate metabolism	Gluconeogenesis Glycogen Metabolism	a Power point lecture /practical application	short exam
			Glycogen Storage Disease		
6	2 theoretical + 2 practical	Carbohydrate metabolism	Regulation of Blood Glucose Normal Plasma Glucose Level	a Power point lecture /practical application	short
7			Diabetes Mellitus		exam
/	2 theoretical + 2 practical	Lipid metabolism	Classification of Lipids Fatty Acids Digestion of Lipids	a Power point lecture /practical application	short
			Absorption of Lipids		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			X 7', · ·		
15	2 theoretical + 2 practical		Vitamin A Vitamin D Vitamin E	a Power point lecture /practical application	short
		Vitamins	Vitamin E Vitamin K		
			Vitamin B1		exam
			Vitamin B2		
16	2 theoretical +		Beta – Oxidation of	a Power point lecture	
	2 practical		Fatty acids Synthesis of Fatty Acids	/practical application	short
		Lipid metabolism	Synthesis of TGA		
			Fatty liver and Lipotropic		exam
4 17			Factors		
1/	2 theoretical +		Vitamin B3	a Power point lecture	ala a st
	2 practical		Vitamin Bo Pantothonic acid	/practical application	short
		Vitamins	Riotin		over
		v Italiinis	Folic Acid		exam
			Vitamin B12		
			Vitamin C		
18	2 theoretical +		Definition	a Power point lecture	
	2 practical		Importance of	/practical application	short
		Nutrition	Carbohydrate		
			Nutritional Importance		exam
10			Lipids		
19	2 theoretical +		Protein – Energy	a Power point lecture	ala a st
	2 practical	Nutrition	Malnutrition	/practical application	Short
		rutition	Obesity		ovam
			Prescription of Diet		слаш
20	2 theoretical +			a Power point lecture	
	2 practical		Phases of	/practical application	short
		Detoxification	Detoxification		
			Free Radicals		exam
21	2 theoretical			a Douron point la stura	
21	2 uneoretical +			(practical application	short
	2 practical	Biochemistry of Tee	Saliva	/ practical application	511011
		and Caries	Composition of Teeth		exam
22					
22	2 theoretical +			a Power point lecture	1 .
	2 practical	Ripphomistry of Tac	Dental Carias	/practical application	short
		and Caries	Fluoride		ovom
			- 1001100		exalli
23	2 theoretical +		Introduction	a Power point lecture	
	2 practical		Classification	/practical application	short
		Hormones	Mechanism of		
			Activation		exam
24	2 theoretical		Functions of TCA	a Dowor point last	
4 7	2 uneoretical +		Cvcle	a rower point lecture	short
	2 practical	Vitamins	Reactions of Cycle	/ practical application	311011
		, ituillilli	Significance of TCA		exam
			Cycle		

			Regulation of TCA Cy		
25	2 theoretical + 2 practical	Tricarboxylic Acid	Redox Potentials High Energy	a Power point lecture /practical application	short
		Cycle and Biologica Oxidation	Compounds Organization of Electron Transport Chain		exam
26	2 theoretical +		Vitamin B3	a Power point lecture	
	2 practical	Tricarboxylic Acid	Vitamin B6 Pantothenic acid	/practical application	short
		Cycle and Biologica Oxidation	Biotin Folic Acid Vitamin B12 Vitamin C		exam
27	2 theoretical +		Vitunini C	a Power point lecture	
	2 practical	Clinical Cases	Clinical Cases	/practical application	short
					exam
28	2 theoretical +			a Power point lecture	
	2 practical	Clinical Cases	Clinical Cases	/practical application	short
20					exam
29	2 theoretical + 2 practical	Clinical Cases	Clinical Cases	a Power point lecture /practical application	short
		Chinear Cases	Chinear Cuses		exam
30	2 theoretical +		Functions of TCA Cycle	a Power point lecture	
	2 practical	Tricarboxylic Acid Cycle and Biologica	Reactions of Cycle Significance of TCA	/practical application	short
		Oxidation	Cycle Regulation of TCA Cycle		exam
Course	Evaluation				
Five deg	rees of presence ar	nd absence			
Five grad	les of assignments				
Fifteen d	egrees half the yea	r			
Ten prac	tical evaluation mar	ks			
Five theo	pretical evaluation m	narks			
Twenty-	five final practical m	narks			
Thirty-fiv	ve final theoretical n	narks			
Learni	ng and Teachi	ng Resources			
<u> </u>					

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

Arabic 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 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.	1. Course Name:					
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 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.	Arabic					
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 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.	2. Course Cod	e:				
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 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.	Half yearly					
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 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.	3. Semester /	Year				
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.	2023-2024					
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 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. Description	Prenaration 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.						
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.	5. Available A	ttendance Forms:				
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.	Full attenda	ince				
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.	6. Number of	6. Number of Credit Hours (Total) / Number of Units (Total)				
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.	1 hours – 1	1 hours – 1 units				
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.	7. Course ad	ministrator's name (mention all, if more than one name)				
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.	Name: Asst	Name: Asst.Lec. hiba alkharsan				
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.	Email: hiba	Email: hiba.alkharsan@alkafeel.edu.iq				
Course Objectives1. 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.	8. Course Obje	ectives				
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.	Course Objectives	1. Learn about the types of common linguistic errors, explain their causes,				
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.		and how to avoid them.				
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.		2. He learns the rules related to the marfu' ta', the long ta' and the open				
3. He learns the rules for writing the extended and shortened alifs and using the solar and lunar letters correctly.		ta' and how to write them correctly.				
using the solar and lunar letters correctly.		3. He learns the rules for writing the extended and shortened alifs and				
		using the solar and lunar letters correctly.				
4. Identifying the $dad{\bar{d}}$ and $da{\bar{d}}$ and knowing how to distinguish between		${f 4}.$ Identifying the $dar{a}{f d}$ and $dar{a}'$ and knowing how to distinguish between				
them in writing.		them in writing.				
5. Learn how to write the hamza correctly according to the linguistic rules.		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 betwee					
	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					
	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					
	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 a	nd 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					
	language is essential in any business environment.					
10 0 01						

10. Course Structure

	11	De autime de la complete a		Leave in a medical	F eedbacking
vveek	Hours	Required Learning	Unit or subject	Learning method	
		Outcomes	name		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	Applic	ations of	Listen and practice	
		linguistic errors	comme	on linguistic		practical
			errors			
			Nun ar	nd Tanween -		application
22.26			meanii	ngs	D	
22-26	1 hour	Training in writing	Forma	l aspects of	a Power point lectur	
		administrative letters	admini	Istrative	/practical application	Skill reveal
			The los	rse		
			admini	istrative		
			discou	rse		
27-30	1 hour	View examples of	Examp	oles of	Written training	
		administrative	admini	istrative	0	Practical
		correspondence	corresp	oondence		
						application
Course	Evaluation					
Fir	st semester: 10	marks, mid-year: 20	marks,	final: 70 marl	۲S	
Learni	ng and Teach	ing Resources				
Require	d textbooks (curr	icular books, if any)				
Main ref	Main references (sources)			Lecture file circulated by the government		
Recommended books and references (scier			(scien tv	winning agenc	y	
journals, reports)						
Electron	ic References, W	/ebsites				
L			I			

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

124 Strateg	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 StrategiesStrategy• Applying education based on individual differences in teaching preventive dentistry: 					
 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. 					s or 7, such as , anywhere.	
125. C	Course St	ructure				
Week	Hour	Required Learning Outcomes	Unit or subject	Learning	Evaluation	
1	1	-What is preventive dentistry?	Preventive	Lectures	Weekly	
1	1	 Is preventive dentistry still needed? Levels of prevention Caries prevention: how far it had come in one century! 	Dentistry (introduction)	Lectures	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.	fluoridation	
		-Mechanisms of Fluoride Action.		
		-Fluoride's effect on tooth mineral.		
		-Inhibition of Bacterial Enzyme System.		
		-Classification of Topical Fluoride.		
		-Fluoride Compounds.		
8	1	-Requisites for self-applied fluoride agents.		
-		-Fluoride Dentifrices.	Self-applied	
		-Fluoride Mouth rinses.	fluoride	
		-Fluoride Gel.		
		-Fluoride and Tooth erosion		
9	1	-Indication of Topical fluoride applications	Professionally	
,	1	-Types of professionally applied fluorides:	applied fluoride	
		Aqueous Solutions Fluoride Gels	appilea machae	
		-Fluoride Varnishes		
		-Fluoride Prophylactic Paste		
		Pastorative Materials Containing Eluoride		
		-Restorative Materials Containing Phoride		
		(Slow Polooso)		
10	1	(Slow Kelease).	Toxicity of fluorida	
10	1	-racions affecting huoride toxicity.	TOXICITY OF HUORIDE	
		-Acute toxicity.		
		-Management of fluoride acute toxicity.		
		-Chronic Toxicity.		
		-Dental fluorosis and skeletal		
		fluorosis.		
11	1	-Microbial ecology in the oral cavity		
		-Acquisition of the resident oral	Microbiology of	
		micro flora Site distribution of	caries	
		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		
12	1	-Virulence of microorganisms	Cariogenic	
		-Major dental caries-associated bacteria	potential of	
		Mutans streptococci,Lactobacilli,	bacteria	
		Actinomyces, Veillonella		
		-Other caries-associated bacteria		
13	1	-Definition History	Fissure sealants	
		-indication and contraindication		
		-sealant in adult		
		-Ideal sealants materials		
		-Requisites for Sealant Retention		
		-Colored Versus Clear Sealants		
		-Sealants for proximal enamel		
		surfaces		
14	1	-Minimally Invasive Treatment Technique	New approach in	
1-4	1	-Minimally Invasive Cavity Preparation	restorative dentistry	
		Non-machinery Preparation	restorative definishly	
		-I ASFR		
		-Chemo mechanical Caries Removal		
		-Preventive Resin Restorations		
		Pamineralization Treatment		
15	1	Pole of earbohydrates in earlies development	Diat nutrition and	
15	1	-Note of carbonyutates in carles development	orel heal Dist and	
		-evidences factors affecting food	dentel acrice	
		canogenicity physical form of food and alternativ	dental carles	
		-physical formatchla and clearance time		
		-types of termentable carbonydrate		

		-the basic stephan curve		
		frequency of intake sugar and		
		dental caries		
16	1	-The sweetness of sugars	Non-sugar	
		-Non- sugar sweeteners	sweeteners	
		-Bulk sweeteners		
		-Intense sweeteners		
		-Protective factors in food		
		-Fruit and dental caries		
		-Testing food cariogenicity		
17	1	-Nutritional status assessment		
		-Body Mass Index	Dietary counseling	
		-Assessment of dietary intake	in dental practice	
		-Objectives of dietary assessment	-	
		-24hour recall		
		Dietary record		
		-Food frequency questionnaires		
		-Evaluation of cariogenic potential		
		-Evaluation of nutritive value		
		-Dietary counseling		
18	1	-Nutrition and oral health	Nutrition and oral	
	· ·	-Nutrition dental caries	health	
		-Systemic effect		
		-Morphology of the teeth		
		-The quality of the hard tissues		
		-Ouality of saliva		
		-Evidences of the effect of some nutrients on		
		dental caries		
		-Nutrition and eruption of teeth		
19	1	-Nutrition and periodontal health	Nutrition, diet &	
17	1	-The mechanisms by which nutrition may	periodontal disease	
		affect periodontal disease	periodonal disease	
		-Effect of food texture on periodontal health		
		-Nutrition and oral mucosal disease		
		-Nutrition and oral cancer		
		-Primary prevention		
		-Secondary prevention		
20	1	Oral fluid Function of saliva	Saliva and dental	
20	1	Composition of saliva Factors	caries	
		influencing salivary composition	carres	
		Salivary flow rate Factors		
		influencing selivery flow rate		
		Influence of solive on dental		
		caries		
21	1	Non specific immune factors	Oral immuna	
21	1	Spacific immune factors	oral minute	
		Immunization of dental caries	system	
		Vaccination		
22	1	Acquired pellicle		
LL	1	-Acquired periode	Oral hugiana	
		-Dental plaque	orar nyglene maasuras	
		-Delital calculus	measures	
		Tooth brushing methods		
		- Tooli Diusiniig methous Objectives of tooth brushing		
		Interdental Cleaning aide		
		-interdential Cleaning alds		
		-Oral Imigation devices		
		-Gingival massage		
23	1	-ideal properties of chemical plaque control	0.11	
		agents	Oral hygiene	
l		-woodes of action Chlornexidine, Triclosan	measures 2	
		-Essential oil mouthwashes or Listerine		

	1	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		-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	
8 % quizzes		10 % th	leory	final	
2% interaction during the school year				examination	
10% clinical requirements		15% practical		_	
3 % Fill out a medical sheet for pedodontics cases	(case sheet)				
2% seminars					
25% final practical examination				60% final	
35% final theory examination				examination	
127. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources) Primary preventive dentistry Christen Comprehensive Preventive D Essentials of preventive and comprehensity dentistry by Peter Comprehensity Description Descripting Description			by Harris and Dentistry Imunity		
Recommended books and references (scientific journals, reports)	d books and references (scientific rts) Professional Prevention in Dentistry: Advances Dentistry				
Electronic References, Websites					

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 car	npus		
133.	Number of Credit Hours (Total) / Number of Units (Total)		
Theory	y 30 hours in 30 weeks		
Practic	Practical: 60 hours in 30 weeks		
Numb	er of units: 6		

134	1. N	Course administrator's name (mention a	ll, if more than one nat	me)	
	Name:	Ahmed Muhsin Almayaly			
	Eman:	annedannayan@yanoo.co.uk			
135	5.	Course Objectives			
Course	Objecti	ves •]	Providing students with	basic scientifi	c
		I	knowledge about orthod	dontics.	
		•]	Developing students' sk	cills in diagnosi	ing various
			Fraining students to tre	est orthodontic	C3565
			Encouraging students to the	pursue scienti	fic research
		i	n the field of orthodon	tics.	
130	б.	Teaching and Learning Strategies			
Strateg	Strategy • Applying education based on individual differences in teaching orthodontics:				
		The teacher can modify the edu	r example a teacher on	ching methods	to meet the
		students who are having diffic	ulty understanding cert	ain material.	support to
		• Create a website that contain	s educational content a	bout orthodon	tics, such as
		videos, presentations, and artic	cles. Students can acces	ss this content	anytime,
127 (Course C	anywhere.			
Week	Hour	Required Learning Outcomes	Unit or subject	Learning	Evaluation
	110 01		name	method	method
1	1	Definition of orthodontics	Introduction to	Lectures	Weekly
		- Definition of occlusion, normal,	orthodontics		exams in
		ideal and malocclusion			the form
					choices.
					seminars
					and
2	1		T (1 (*)		discussion
2	1	Six keys of normal occlusion	Introduction to		
		- AIMS OF OFTHOODONTIC	orthodontics		
3	1	Important orthodontic definitions	orthodontic		
5	1	Classification of	definitions		
		malocclusion	definitions		
4	1	- Definitions of growth.	Growth and	1	
		development and maturity	development		
		- Stages of development	1		
		(ovum till birth)			
5	1	Theories of bone growth	Growth and		
		- Definitions of growth site,	development		
		growth center,			
6	1	displacement, and drift			
6	1	Growth curve and maximum growth	Growth and		
		spurt	development		
		- Prenatal and postnatal			
		growth and development of			
7	1	Intra USSUES	Growth and		
/	1	Frenatar and postnatar growth and	Growth and		

		development of soft tissues	development	
		- Developmental anomalies	development	
8	1	Compensation and	- Jaw rotation	
		adaptation		
9	1	a-Stages of tooth development:	Deciduous and	
		(Formation, calcification	permanent	
		and root completion)	dentition	
10	1	h-Tooth eruption (stages and	Deciduous and	
		theories). Sequences and	permanent	
		timing of eruption	dentition	
11	1	Development of occlusion	Deciduous and	
		a. new born oral cavity.	permanent	
		b. Deciduous dentition stage	dentition	
		- Dental changes till 6 years		
12	1	c. Early mixed dentition stage -	Deciduous and	
		eruption of first molars and incisors.	permanent	
		d. Late mixed dentition stage -	dentition	
		eruption of canines and premolars		
		e. Permanent dentition -		
		eruption second and third		
1.0		molars.		
13	1	-Genetic and inherited etiological	Etiology of	
		factors of malocclusion-	malocclusion:	
		Classification of etiological factors		
		a. General factors		
14	1	1. Skeletal 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	
		tooth movement:		
		i. Histology of periodontium		
		ii. Theories of tooth movement		
		b. Accelerated tooth		
10	1	i Force (application type)	a Piomochanica	
17		magnitude duration and direction)	c. Diomechanics	
		ii Center of resistance and rotation		
		moment of force and moment of		
		couple.		
		iii Types of tooth movement		
		iv. Rate of tooth movement		
	1			

		and factors affecting it		
20	1	(pain mobility pulp effect root	d jatrogenic	
		resorption white spot	effect of tooth	
		lesions).	movement	
			movement	
21	1	Biomechanics	Biomechanics	
22	1	(definition, indications,	Anchorage	
		types)		
23	1	a. Overview:	Orthodontic	
		i. passive orthodontic appliances	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		
24	1	i. Properties of various components	b. Removable	
		(SS wire, acrylic)	Orthodontic	
		ii. Components:	Appliance:	
		1) active components (springs,		
		screws and elastics)		
		2) retentive components (clasps)		
		3) acrylic base plate and bite planes		
		4) anchorage		
25	1	iii. Design of a removable	b. Removable	
		orthodontic appliance	Orthodontic	
		iv. Construction of a removable	Appliance:	
		orthodontic appliance		
		v. Soldering and welding		
		vi. Post-insertion		
		instructions and guidelines		
26	1	Types, components,	. Fixed	
		advantages, limitation,	orthodontic	
		biomechanics, banding vs.	appliance:	
		bonding		
27	1	Types, components,	. Orthopedic and	
		advantages, limitation,	Myofunctional	
		mode of action	appliance:	
20	1			
20		Continue Orthopedic and	. Orthopedic and	
		wyorunctional appliance:	wiyoiunctional	
		Types, components,	appliance:	
		auvantages, limitation,		
29	1	Retention (definition	Retention and	
		reason time)		

	1				1	
			retainers			
30	1	clear overlay, positioners, permanent fixation, precision	Retainers			
138.	Course	Evaluation				1
15%	Theory 1	mid exam				40% sum of
13 %	quizzes	and exams		15% th	neory	final
2% ii	nteraction	n during the school year				examination
5% v	vire bend	ing requirements		10% pr	actical	
2% d	lifferent a	activities in the lab				
3% s	eminars					
25%	final prac	ctical examination				60% final
35%	final theo	ory examination				examination
139.	Learnir	ng and Teaching Resources				1
Requi	red textbo	ooks (curricular books, if any)	Introduction to Mitchel	o orthodo	ntics 4 th ed	ition. Laura
Main	reference	s (sources)	Contemporary Proffit	orthodon	tics 6 th edi	tion William R.
Recon	nmended	books and references (scientific	European orth	odontic jo	ournal	
journa	uls, report	(S)	Angle orthodo	ntic jourr	nal	
Electro	onic Refe	erences, Websites				

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 car	npus
145.	Number of Credit Hours (Total) / Number of Units (Total)
Theory	y 30 hours in 30 weeks
Practic	cal: 90 hours in 30 weeks
Numb	er of units: 6

1.4.4	-		11	:C		
146). Name:	Course administrator's name (mentic	on all,	if more than one nar	ne)	
	Email:	mouayadfzwain@alkafeel.edu	ı.iq			
147	7.	Course Objectives				
Course	Objecti	ves •	the	student learn the bas	ics of orthodor	ntics
		•	And	l the different types of	of orthodontic of	devices that are
		D	usec Dental	treatments that are n	ot aligned corr	ectly
		•	How	v to diagnose cases th	at need orthod	lontic
			treat	tment and write a list	t. developing a	treatment
148	3.	Teaching and Learning Strategies	pian	Tor simple cases		
Strateg	у	Understanding the basics of orthod	ontics	is essential for any s	tudent who wa	ants to
		succeed in this subject. Students mu	ust reading	d books, magazines a	nd scientific ar	ticles about
		Obtaining practical training on the	use o	f various orthodontic	devices. They	can do this
		through action in the orthodontic c	clinic.		5	
		Cooperative learning is where stud	lents c	an work together in g	groups to discu	ss concepts
		and solve problems via seminars.				
149 ('ourse St	tructure				
Week	Hour	Required Learning Outcomes		Unit or subject	Learning	Evaluation
1	1			name	method	method
1	1	- Students will be able to		diagnosis and	Lectures	weekly exams in
		accurately collect and record		treatment		the form
		patient personal data, including		planning: a- Parsonal data b		of
		demographics, medical		Consent form c-		seminars
		history, and dental history		Clinical		and
		Students will be able to analyze and		General body		discussion
		interpret diagnostic findings to formu	ulate	stature		
		a treatment plan that addresses the				
		patient's individual needs and goals.				
2	1	Students will be able to understand h	how	ii. Face		
		facial aesthetics play a role in		dimensions iii.		
		orthodontic treatment planning.		skeletal		
		Students will be able to palpate and		examination iv.		
		assess the underlying skeletal structu	ures	examination		
		of the head and neck, including the				
		maxilla, mandible, zygomatic bones,	and			
		temporomandibular joints.				
		Students will be able to assess the				
1						

			1	1
		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	v. Occlusion	
		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.		
4	1	Students will be able to:	vi. Dentition	
		• Identify and describe the	ibular joint	
		different types of teeth		
		(incisors, canines, premolars, mo		
		lars) and their specific functions		
		in mastication		
		• Assess the patient for signs and		
		symptoms of TMJ		
		problems, including		
		pain, clicking, popping, and		
		limited jaw movement.		
5	1	Students will be able to define key terms	d- Diagnostic	
		and concepts associated with	aids i. Cephalometrics	
		cephalometrics, including radiographic	Cophaiometrics	
		projections, landmarks, reference		
		planes, angles, and tracings.		
6	1	• Students will be able to define	ii.	
		the principles of panoramic	Orthopantomogra	
		radiography and its application	views	
		in orthodontics.		
	1	1		l

		• 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	iv. Study models	
		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.		
8	1	Students will understand the importance	v. Photography	
		of intraoral and extraoral photography in	vi. 5D imaging	
		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		
9	1	• Students will understand the	e- Treatment	
		principles and goals of	planning	
		orthodontic treatment planning.		
		• Students will be able to identify		
		the various factors that influence		
		treatment planning, such as		
		patient age, severity of		
		malocclusion, skeletal		

		considerations dental		
		characteristics and patient		
		enaracteristics, and patient		
		preferences.		
		• Students will understand the		
		different types of orthodontic		
		appliances and their mechanisms		
		of action.		
10	1	• Students will understand the	f- Treatment of Medically	
		diverse spectrum of medical	compromised	
		conditions that can impact	patients	
		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		
11	1	Common orthodontic	g- Orthodontic	
		indices, such as the Dental	indices	
		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		
		scoring systems used in each		

		index.		
12	1	• Define and explain the concept	Space analysis, Bolton's ratio	
		of space analysis in orthodontics.	Bolton's fatio	
		• 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		
		treatment options		
13	1	• Define and explain the concept	Teeth extraction	
		of teeth extraction in	in orthodontics	
		orthodontics and its potential		
		therapeutic uses.		
		• Identify the various indications		
		for teeth extraction in		
		orthodontic treatment,		
		considering factors		
		Recognize the contraindications for		
14	1	teeth extraction in orthodontics	Serial extraction	
17	1	extraction in orthodontics describing its	Serial extraction	
		specific approach and rationale		
		Identify the indications for serial		
		average and Basage is the potential		
		extraction and Recognize the potential		
		limitations and contraindications of serial		
		extraction		
15	1	Define and explain the concept of a deep	Vertical and	
_		bite in orthodontics, including its	transverse	
		different classifications (mild. moderate.	problems: a. Deep bite	
		severe)	- I	
16	1	Define and explain the concept of	b. Open bite	
		open bite in orthodontics,		
		posterior open bites		
17	1	Define and differentiate between	c. Crossbite and	
			scissors bite	

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

23 1 Define and explain the characteristics of a Class II Division 2 (CL II Div 1) 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 Identify the various etiological factors associated with CL SI Div 2 d. Class III 25 1 Define and different treatmer options available for Class III Treatment 25 1 Define and differentitate between the different stages of periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors associated with periodontal disease Identify the various scilogical factors askeletal				1	1	
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Recognize the potential consequences of cleft lip and			genetic factors.			
consequences of cleft lip and			• Recognize the potential			
			consequences of cleft lip and			

		palate				
28	1	Grasp the fundamental principles of digital technologies used in orthodonti Intraoral scanners: Cone beam comput tomography (CBCT) Software program Digital cephalometric analysis: 3D printing: Comprehend the advantages a limitations of digital technolo	nd gies	cs proach ntic and		
150.	Course					
15%	Theory	v mid exam				% 40sum of
4% (quizzes			10 % t	heory	degrees before final
2% s	eminars	5				examination
4% i	nteraction	on during the school year				
10%	Treatin	g an orthodontic condition using rem	ovable braces	15% pi	actical	
4% l (case	Fill out e sheet)	a medical sheet for orthodontic case	s, number 4			
1% (delineat	ion of head measurements		-		
Addi	tional g	rades for dental impressions that rec	uire			
straig	ghtening	g, casting, and studying dental molds	s.			
25%	final pr	actical examination				60% final
35%	final th	eory examination				examination
151.	Learnii	ng and Teaching Resources				
<u>Requir</u> Main r	red textb reference	ooks (curricular books, if any) is (sources) is (sources)	I. An Introducti Simon J. Littlew 2. Orthodontics and Practice 2nd	on to Ort ood and 1 : Principle Edition	hodontics f Laura Mitcl es and Prac 2017	5th Edition hell 2019. tice: Principles
Recom journal	mended ls, report	books and references (scientific				

1 27		~					
152	2.	Course Name:					
Pedodo	ontics						
153	3.	Course Code:					
DNK4-	·PD						
154	4.	Semester / Year:					
fourth	year						
155	5.	Description Preparation Date:					
10-9-20)23						
156	5.	Available Attendance Forms:					
	On can	npus					
157	7.	Number of Credit Hours (Total) /	Number	of Units (Total)			
	Theory	30 hours in 30 weeks					
	Practic	al: 60 hours in 30 weeks					
	Numbe	er of units: 4					
158	3.	Course administrator's name (men	ntion all,	if more than one na	me)		
	Name:	Ali Hadi Fahad					
	Email:	alih.fahad@uokufa.edu.iq					
159).	Course Objectives					
		5	• • U	Inderstanding and as	similating theo	pretical and	
			pra	ctical methods for tr	eating all cases	s of	
			chi	ldren's dental infect	ions.		
Course	Objecti	ves	• • Io	lentify scientific met	thods and meth	nods	
course	objecti		 Further scientific methods and methods supported by means of explanation 				
			• How to identify haby and permanent teeth and				
			• • II	a problems related to	them		
160)	Teaching and Learning Strategies	tiit	problems related to	them.		
100	J.	Annlying advection be	and on in	dividual differences	in taaahing na	dadantias	
		• Apprying education ba	sed on m	Idividual differences	in teaching pe	dodoittics.	
			thaduad	tional contant or too.	ahing mathada	to most the	
1		ne teacher can modily	the educa	ational content or tea	ching methods	to meet the	
Stratog	**	needs of different studen	the educants. For e	ational content or tead example, a teacher ca	ching methods in provide more tain material	to meet the e support to	
Strateg	У	needs of different studer students who are having	the educants. For e difficult	ational content or tea example, a teacher ca ty understanding cer	ching methods in provide more tain material.	to meet the e support to	
Strateg	У	needs of different studen students who are having • Create a website that c	the educa nts. For e g difficult contains e	ational content or tead example, a teacher can ty understanding cert educational content a	ching methods in provide more tain material. about pedodont	to meet the e support to tics, such as	
Strateg	У	 The teacher can modify needs of different student students who are having Create a website that c videos, presentations, an anywhere 	the educa nts. For e g difficult contains e nd article	ational content or tead example, a teacher can ty understanding cer- educational content a s. Students can acces	ching methods in provide more tain material. about pedodont ss this content	to meet the e support to tics, such as anytime,	
Strateg	y	reacher can modify needs of different studer students who are having • Create a website that c videos, presentations, ar anywhere.	the educa nts. For e g difficult contains e nd article	ational content or tea example, a teacher ca ty understanding cer educational content a s. Students can acces	ching methods in provide more tain material. about pedodont ss this content	to meet the e support to tics, such as anytime,	
Strateg	y Course St	The teacher can modify needs of different studen students who are having • Create a website that c videos, presentations, an anywhere.	the educa nts. For e g difficult contains e nd article	ational content or tea example, a teacher ca ty understanding cer educational content a s. Students can acces	ching methods in provide more tain material. about pedodont ss this content	to meet the e support to tics, such as anytime,	
Strateg 161. C Week	y Course St Hour	ructure Required Learning Outcomes	the educa nts. For e g difficult contains e nd article	ational content or tea example, a teacher ca ty understanding cer educational content a s. Students can acces	ching methods in provide more tain material. about pedodont ss this content Learning	to meet the e support to tics, such as anytime, Evaluation	
Strateg 161. C Week	y Course St Hour	ructure Required Learning Outcomes	the educa nts. For e g difficult contains e nd article	ational content or tead example, a teacher can ty understanding cert educational content a s. Students can access Unit or subject name	Learning methods tain material. bout pedodont ss this content	to meet the e support to tics, such as anytime, Evaluation method	
Strateg 161. C Week	y Course St Hour	 The teacher can modify needs of different student students who are having Create a website that c videos, presentations, an anywhere. Cructure Required Learning Outcomes 	the educa nts. For e g difficult contains e nd article	ational content or tead example, a teacher can ty understanding cert educational content a s. Students can access Unit or subject name	ching methods in provide more tain material. about pedodont ss this content Learning method	to meet the e support to tics, such as anytime, Evaluation method Weekly	
Strateg 161. C Week	y Course St Hour	 The teacher can modify needs of different student students who are having Create a website that c videos, presentations, an anywhere. Cructure Required Learning Outcomes 	the educa nts. For e g difficult contains e nd article	ational content or tead example, a teacher can ty understanding cert educational content a s. Students can access Unit or subject name	ching methods in provide more tain material. about pedodont ss this content Learning method	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in	
Strateg 161. C Week	y Course St Hour	 The teacher can modify needs of different student students who are having Create a website that c videos, presentations, ar anywhere. cructure Required Learning Outcomes 	the educa nts. For e g difficult contains e nd article	ational content or tead example, a teacher can ty understanding cert educational content a s. Students can access Unit or subject name	ching methods in provide more tain material. about pedodont ss this content Learning method	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form	
Strateg 161. C Week	y Course St Hour	 The teacher can modify needs of different student students who are having Create a website that c videos, presentations, ar anywhere. cructure Required Learning Outcomes Eruption of teeth , normal eruption 	the educa nts. For e g difficult contains o nd article	ational content or tead example, a teacher cat ty understanding cert educational content a s. Students can access Unit or subject name	Lectures	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form of	
Strateg 161. C Week	y Course St Hour 1	Ine teacher can modify needs of different student students who are having • Create a website that c videos, presentations, ar anywhere. cructure Required Learning Outcomes Eruption of teeth , normal erup process	the educa nts. For e g difficult contains o nd article	ational content or tead example, a teacher can ty understanding cert educational content a s. Students can access Unit or subject name	Lectures	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form of choices,	
Strateg 161. C Week	y Course St Hour 1	 The teacher can modify needs of different student students who are having Create a website that c videos, presentations, ar anywhere. Cructure Required Learning Outcomes Eruption of teeth , normal erup process 	the educa nts. For e g difficult contains e nd article	ational content or tead example, a teacher can ty understanding cert educational content a s. Students can access Unit or subject name	Lectures	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form of choices, seminars	
Strateg 161. C Week	y Course St Hour 1	 The teacher can modify needs of different student students who are having Create a website that c videos, presentations, ar anywhere. cructure Required Learning Outcomes Eruption of teeth , normal erup process 	the educa nts. For e g difficult contains e nd article	ational content or tead example, a teacher can ty understanding cert educational content a s. Students can access Unit or subject name	ching methods in provide more tain material. about pedodont ss this content Learning method Lectures	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form of choices, seminars and	
Strateg 161. C Week	y Course St Hour 1	 The teacher can modify needs of different student students who are having Create a website that c videos, presentations, ar anywhere. Required Learning Outcomes Eruption of teeth , normal erup process 	the educa nts. For e g difficult contains e nd article	ational content or tead example, a teacher can ty understanding cert educational content a s. Students can access Unit or subject name	ching methods in provide more tain material. about pedodont ss this content Learning method Lectures	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form of choices, seminars and discussion	
Strateg 161. C Week	y Course St Hour 1	The teacher can modify needs of different student students who are having • Create a website that c videos, presentations, ar anywhere. cructure Required Learning Outcomes Eruption of teeth , normal erup process Teething and difficult	the educa nts. For e g difficult contains o nd article	ational content or tead example, a teacher cat ty understanding cert educational content a s. Students can access Unit or subject name pedodontics	ching methods in provide more tain material. about pedodont ss this content Learning method Lectures	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form of choices, seminars and discussion	
Strateg 161. C Week 1	y Course St Hour 1	The teacher can modify needs of different student students who are having • Create a website that c videos, presentations, ar anywhere. cructure Required Learning Outcomes Eruption of teeth , normal erup process Teething and difficult eruption	the educa nts. For e g difficult contains o nd article	ational content or tead example, a teacher cat by understanding cert educational content a s. Students can acces Unit or subject name pedodontics	ching methods in provide more tain material. about pedodont ss this content Learning method Lectures	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form of choices, seminars and discussion	
Strateg 161. C Week 1 2	y Course St Hour 1	Ine teacher can modify needs of different student students who are having • Create a website that c videos, presentations, ar anywhere. cructure Required Learning Outcomes Eruption of teeth , normal erup process Teething and difficult eruption Eruption haematoma .	the educa nts. For e g difficult contains e nd article	ational content or tead example, a teacher can ty understanding cert educational content a s. Students can access Unit or subject name pedodontics	Lectures	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form of choices, seminars and discussion	
Strateg	y Course St Hour 1 1	The teacher can modify needs of different student students who are having • Create a website that c videos, presentations, ar anywhere. cructure Required Learning Outcomes Eruption of teeth , normal erup process Teething and difficult eruption Eruption haematoma , sequestrum ectopic eru	the educa nts. For e g difficult contains o nd article	ational content or tead example, a teacher cat ty understanding cert educational content a s. Students can acces Unit or subject name pedodontics pedodontics	Lectures	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form of choices, seminars and discussion	
Strateg	y Course St Hour 1 1 1	The teacher can modify needs of different student students who are having • Create a website that c videos, presentations, ar anywhere. eructure Required Learning Outcomes Eruption of teeth , normal erup process Teething and difficult eruption Eruption haematoma , sequestrum ,ectopic eru Enstein pearls, Bohn	the educa nts. For e g difficult contains o nd article	ational content or tead example, a teacher cat ty understanding cert educational content a s. Students can acces Unit or subject name pedodontics pedodontics	Lectures	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form of choices, seminars and discussion	
Strateg 161. C Week 1 2 3	y Course St Hour 1 1 1	The teacher can modify needs of different students who are having • Create a website that c videos, presentations, ar anywhere. cructure Required Learning Outcomes Eruption of teeth , normal erup process Teething and difficult eruption Eruption haematoma , sequestrum ,ectopic eru Epstein pearls, Bohn nodulos, Dental lawing	the educa nts. For e g difficult contains of ad article	ational content or tead example, a teacher cat ty understanding cert educational content a s. Students can acces Unit or subject name pedodontics pedodontics	ching methods in provide more tain material. about pedodont ss this content Learning method Lectures	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form of choices, seminars and discussion	
Strateg 161. C Week 1 2 3 4	y Course St Hour 1 1 1 1	The teacher can modify needs of different student students who are having • Create a website that c videos, presentations, ar anywhere. cructure Required Learning Outcomes Eruption of teeth , normal erup process Teething and difficult eruption Eruption haematoma , sequestrum ,ectopic eru Epstein pearls, Bohn nodules, Dental lamina	the educa nts. For e g difficult contains of ad article	ational content or teacher example, a teacher cate by understanding cerreducational content a s. Students can access Unit or subject name pedodontics pedodontics pedodontics	ching methods in provide more tain material. about pedodont ss this content Learning method Lectures	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form of choices, seminars and discussion	
Strateg 161. C Week 1 2 3 4	y Course St Hour 1 1 1 1	The teacher can modify needs of different student students who are having • Create a website that c videos, presentations, ar anywhere. ructure Required Learning Outcomes Eruption of teeth , normal erup process Teething and difficult eruption Eruption haematoma , sequestrum ,ectopic eru Epstein pearls, Bohn nodules, Dental lamina cysts, Shedding of the	the educa nts. For e g difficult contains o nd article	ational content or tead example, a teacher cate by understanding cert educational content a s. Students can access Unit or subject name pedodontics pedodontics pedodontics	ching methods in provide more tain material. about pedodont ss this content Learning method Lectures	to meet the e support to tics, such as anytime, Evaluation method Weekly exams in the form of choices, seminars and discussion	

		of resorption and shedding,		
		Factors causes differences in		
		time of eruption		
		Systemic (disease) Factors which		
5	1	cause late eruption	pedodontics	
		Deciduous Dentition Period, Ugly Duckling Stage		
6	1	Morphology of the primary teeth	pedodontics	
7	1	Normal morphology of all primary teeth and their clinical consideration	pedodontics	
		Morphological differences between		
8	1	primary and permanent	pedodontics	
		teeth		
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	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 Typ	e		
		of space			
		maintainer(indication			
		andcontraindication Typ	e		
		of space			
		maintainer(indication			
		and contraindication Typ	e		
		of space			
		maintainer(indication			
		andcontraindication			
		Anesthetizing mandibular	,		
23	1	and maxillary teeth and so	oft pedodontics		
		tissue	r		
		complications after a loca	1		
24	1	anesthetic	pedodontics		
		supplemental injection			
25	1	techniques	pedodontics		
		Oral surgery for children			
		indication and			
26	1	contraindictions for	pedodontics		
	extraction of primary t	avtraction of primary toot	h		
		technique for extraction of	п, с		
27	1	nrimory tooth	pedodontics		
10	1	primary teetin	nadadantias		
20	1	postoparative extraction	pedodontics		
20	1		ia madadantias		
29	1	complications, radiograph	ne pedodontics		
		survey of teeth extracted			
30	1	Infections manifestation a	nd pedodontics		
160	Course E	management			
102. Distrik	Course E	valuation $\frac{100}{100}$ according to that	asks assigned to the stud	ant such as daily proparation	
Jistiitu lailu	oral month	ly written exams reports atc	asks assigned to the stud	ent, such as dany preparation,	
First s	emester 12	5 (daily exams + semester exam + s	seminar + attendance)		
Mid-ve	ear 15	e (auty chains + semester chain + t	formation accordance)		
Second	d semester	12.5			
Final e	exam: 35 th	eoretical			
25 pra	actical				
163.	Learning	and Teaching Resources			
			McDONALD AND A	AVERY'S DENTISTRY for	
			CHILD and ADOLE	SCENT 2016 by Elsevier	
			Pediatric Dentistry Damle 3rd ed 2009		
			regiance Dentistry 1	Jamle 3rd ed. 2009	
Requir	red textbool	ks (curricular books, if any)	Text book of pediatri	c dentistry	
Requir	red textbool	ks (curricular books, if any)	Text book of pediatri Nikhil Marwa 2nd ed	c dentistry . 2009 New Delh	
Requir	red textbool	ks (curricular books, if any)	Text book of pediatri Nikhil Marwa 2nd ed Hand book of pediatr	c dentistry . 2009 New Delh ic dentistry (Cameron)	
Requir	red textbool	ks (curricular books, if any)	Text book of pediatri Nikhil Marwa 2nd ed Hand book of pediatr mosby Elsevier/4th e	c dentistry . 2009 New Delh ic dentistry (Cameron) dition/2013	
Requir	red textbool	cs (curricular books, if any)	Text book of pediatri Nikhil Marwa 2nd ed Hand book of pediatr mosby Elsevier/4th e Pediatric Dentistry A	c dentistry . 2009 New Delh ic dentistry (Cameron) <u>dition/2013</u> clinical approach/ Göran	
Requir Main r	red textbool	cs (curricular books, if any) sources)	Text book of pediatri Nikhil Marwa 2nd ed Hand book of pediatr mosby Elsevier/4th e Pediatric Dentistry A Koch, Sven Poulsen/	c dentistry . 2009 New Delh ic dentistry (Cameron) <u>dition/2013</u> clinical approach/ Göran Wiley Blackwell Publishing	

	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	

104.	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 can	npus	
169.	Number of Credit Hours (Total) /	Number of Units (Total)
Theory	30 hours in 30 weeks	
Practic	al: 90 hours in 30 weeks	
Numbe	er of units: 5	
170.	Course administrator's name (me	ntion all, if more than one name)
Name:	Khamaal Ibrahim Muhsin	
Email:	d.khamaal1977@gmail.co	m
171.	Course Objectives	
Course Objecti	ves	• Providing students with basic scientific knowledge
		about pediatric dentistry.
		 about pediatric dentistry. Keeping up with the latest scientific developments
		 about pediatric dentistry. Keeping up with the latest scientific developments in pediatric dentistry.
		 about pediatric dentistry. Keeping up with the latest scientific developments in pediatric dentistry. Training students to apply pediatric dentistry in a
		 about pediatric dentistry. Keeping up with the latest scientific developments in pediatric dentistry. Training students to apply pediatric dentistry in a practical way.
		 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
		 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	 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. Strategy	Teaching and Learning Strategies • Applying education based on in	 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. Strategy	Teaching and Learning Strategies Applying education based on in teacher can modify the education 	 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. Strategy	Teaching and Learning Strategies Applying education based on in teacher can modify the education different students. For example, 	 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. Strategy	Teaching and Learning Strategies • Applying education based on in teacher can modify the education different students. For example, having difficulty understanding	 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. Strategy	Teaching and Learning Strategies • Applying education based on in teacher can modify the education different students. For example, having difficulty understanding • Game-based learning: where st	 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. Strategy	Teaching and Learning Strategies • Applying education based on in teacher can modify the education different students. For example, having difficulty understanding • Game-based learning: where state competitions.	 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.

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

	-1	1	1 1	 1
Q	1	behavior Stratagies Of The Dental Team	Classifying	
0	1	-strategies of the Dental Team	children's	
		-Fundamentals Of Behavior Guidance	cooperative	
		-Communicating With Children	behavior	
9	1	-Behavior Shaping	Children'	
		-Retraining -	Techniques	
10	1	Parent-Child Separation	Management of	
10	1	-classification of Root Fractures	Management of	
		-Vertical Root Fracture	root fractures	
		-Oral Burns		
		-Types Of Fracture		
11	1	-Indications for teeth extractions	Oral Surgery for	
		-Extraction technique	Pediatric Patients	
		Impacted teeth		
12	1			
		-The head and neck infections	Intraoral Soft	
		Muccooles and ranula	Tissue And Hard	
			Tissue Prosidure	
		Facial injury		
13	1	Premature Loss Of Deciduous Teeth		
			Types Of Space	
			Maintainers	
14	1	-Four stages of anesthesia	General anesthesia	
		-Steps in hospital procedure		
15	1	-The goals of sedation for the	Pharmacological	
		pediatric patient -Routes Of Drug Administration	management of behavior	
16	1	-treatment of aggressive periodontitis	Localized	
		-Gingival recession	Juvenile	
		-Extrinsic Stains And	Periodontitis	
		Deposits On Teeth Calculus		
		Deposits on rectil Calculus		
17	1	-First Dental Visit	Dental Problems	
		-Home Dental Care	of Children with	
		-Diet And Nutrition	Care Needs	
18	1	-Nance Analysis	Arch Length	

		March Mart David and a state	A1	
		-Moyer's Mixed Dentition Analysis	Analysis	
		-Tanaka and Johnston Analysis.		
19	1	-Intellectual Disabled		
		-Down syndrome	Intellectual	
		-Cerebral palsy	Disabled	
		-Fnilensy		
20	1	-Acquired Immunodeficiency	Viral Hepatitis	
		Syndrome		
		-Leukemia		
21	1	-Endocrinopathies	Management of	
		-Diabetes Mellitus	Children with	
		-Renal disease	Systemic Diseases	
22	1	-Pulpal Hyperemia		
		-Internal hemorrhage	Reaction Of The	
		-Internal resorption		
		-Pulpal necrosis		
		-Hypocalciflcation and Hypoplasia		
		-Reparative Dentine		
23	1	Production -Planning For Space Maintenance	Management Of	
	-	-Requirement of a space maintainer	Space Problems	
		requirement of a space maintainer		
24	1	-Type Of Gingivitis	Gingivitis And	
		-Recurrent Aphthous Ulcer	Periodontal	
			Diseases	
25	1	-Gingival Diseases Modified By		
		Systemic Factors	Chronic	
		-Gingival lesions Of Genetic Origin	Gingivitis	
		-Periodontal Diseases In Children		
26	1	Treat of Joon and	Dula taxata	
26	1	- Treat of deep caries	Pulp treatment	
		-Direct pulp capping		
27	1	-Indications of pulpotomy	Pulpotomy	
_·	-			

		-Contraindications of pulpotomy -clinical procedure				
28	1	-Indications of Pulpectomy -Contraindications of Pulpectomy -clinical procedure -Complete Pulpectomy	Pulpec	tomy		
29	1	 Enteral route Intramuscular route The IV route inhalational route 	Types of g anesthesia	general		
30	1	-Define ART -types, uses and properties.	Atraumati restorative technique	ic e		
174.	Course	Evaluation	•			
15%	• Theory	mid exam				% 40sum of degrees before
8 % quizzes2% interaction during the school year			10 % theory		final examination	
10% 3 % 3	clinical 1 Fill out a	requirements a medical sheet for pedodontics cases (case sheet)	15% practical		-
2% s	eminars	,		-		
25%	final pra	ctical examination				60% final
35%	final the	ory examination				examination
175. Poqui	Learni	ng and Teaching Resources				
Main	reference	es (sources)	McDonald a and Adolesc	nd Avery ent	's Dentistry	for the Child
Recommended books and references (scientific journals, reports)			 Handbook o Dentistry Essentia 	f Clinical	Technique	pproacn s in Pediatric
			Losentia			j

176	5.	Course Name:				
Comm	unity	у				
177	7.	Course Code:				
DNK3-	·CM	~ /				
178	3.	Semester / Year:				
third ye	ear					
179	<i>)</i> .	Description Preparation Date:				
10-9-20)23					
180).	Available Attendance Forms:				
1.01	On can	npus	T 1			
181	T1	Number of Credit Hours (Total) / N	umber	of Units (Total)		
	Droatio	30 nours in 30 weeks				
	Numbe	ar of units: A				
	INUIIIDE	a of units. 4				
182	2.	Course administrator's name (ment	ion all.	if more than one nar	ne)	
	Name:	Ali Faisal Madhloum	,		,	
	Email:	ali.faisal@alkafeel.edu.iq				
183	3.	Course Objectives				
Course	Objecti	• ves	• Pro	oviding students with	basic scientifi	c
			kno	wledge about commu	nity dentistry.	
		•	• • Developing students' skills in understanding oral			
			health.			
		•	• Qualifying students with the clinical skills			
			necessary to provide oral care effectively and			
			• Encouraging students to pursue scientific			
			• En	ncouraging students to pursue scientific		
184	1	Teaching and Learning Strategies	1050		minumey dent	istiy
Strateg	т. V	• Applying education base	ed on in	dividual differences i	n teaching con	munity
Strates	y	dentistry: The teacher can	modify	the educational cont	ent or teaching	methods to
		meet the needs of differen	nt stude	ents. For example, a t	eacher can prov	vide more
		support to students who a	o are having difficulty understanding certain material.			
		• Game-based learning: w	here stu	idents learn by partic	ipating in fun a	activities or
		competitions.			1 0	
		Create a website contain	ing edu	icational content abo	ut community	dentistry,
		such as videos, presentation	ons, and	d articles. Students ca	an access this c	ontent
		anytime, anywhere.				
185. C	Course St	tructure				
Week	Hour	Required Learning Outcomes		Unit or subject	Learning	Evaluation
1	1			name	method	method
	1	Community water Fluoridation.		Dental Public	Lectures	weekly
		Fluoride levels in drinking water ar	nd	пеани		the form
		their correlation with dental caries	rates.			of
		Oral Health Promotion Programs:				choices,
						seminars
		Designing and evaluating commun	ity-			and
L	1	1				1

		based oral health promotion initiatives.		discussion
		Assessing the effectiveness of school-		
		based oral health programs		
		Enidemiology of Dental Diseases:		
		Prevalence and incidence of dental		
		A cases to Dontal Cares		
2	1	Impact of Socioeconomic Factors on	Dental health	
		Oral Health:	education.	
		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:		
3	1	Assessment of Dental Treatment Needs:	Dental need and demand	
		Developing methodologies for assessing	demand	
		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.		

4	1	Dental Workforce Trends:	- Dental Manpower
		Analyzing the current trends in the	Wanpower
		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.	
5	1	Dental Hygiene Practices:	Oral health
		Assessing oral hygiene habits, including	survey.
		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.	
6	1	Caries Indices:	Dental 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 (PSP)	
7	1	Comparative Analysis of Caries Indices:	Indices of dental
		Evaluate and compare the effectiveness of commonly used caries	caries.

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		indices such as DMFT (Decayed,	
		(Decayed Missing Filled Surfaces) in	
		different populations or age groups.	
8	1	Caries Indices and Nutrition:	Indices of dental
		Investigate the relationship between	caries.
		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.	
9	1	Comparative Analysis of Periodontal	Indices of
		Indices:	periodontal diseases
		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.	
10	1	Effectiveness of Community Water	Dental public
		Fluoridation Programs:	health care
		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	

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		measures, education, and dental screenings.		
11	1	Scope of Practice for Dental Auxiliaries:	Dental	
		Evaluate and compare the scope of	auxiliaries.	
		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.		
12	1	Effectiveness of Water Fluoridation	Fluoridation as a	
		Programs:	public health measure	
		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		
13	1	Optimal Fluoride Concentrations for	Fluoride and	
		Caries Prevention:	dentar carles.	
		Investigate the ideal concentration of		
		fluoride in drinking water, toothpaste,		
		and other sources to maximize caries		
		prevention while minimizing the risk of		
		dental fluorosis.		
14	2	Fluoride and Early Childhood Caries:	Occupational	
14	2	Ergonomics in Dental Practice:	hazards in	
		Investigate the impact of ergonomic	dentistry	
		factors on the health and well-being of		
		dental professionals, including		
		musculoskeletal disorders and strategies		
		for ergonomic improvements in the		

dental workspace. Radiation Exposure in Dentistry: Dentistry: 15 Mid year exam 16 1 Epidemiology of Emerging Infectious Epidemiology Diseases: Diseases:	
Radiation Exposure in Dentistry:Mid year exam15Mid year examMid year exam161Epidemiology of Emerging Infectious Diseases:Epidemiology	
Dentistry:Mid year exam15Mid year exam161Epidemiology of Emerging InfectiousDiseases:	
15 Mid year exam Mid year exam 16 1 Epidemiology of Emerging Infectious Epidemiology Diseases: Diseases: Epidemiology	
Diseases:	
Diseases:	
Investigate the epidemiology	
of emerging infectious diseases monitoring their	
spread, assessing risk factors,	
and contributing to	
preparedness and response	
17 1 Cohort Studies in Epidemiology: Methods of	
epidemiology	
Assess the strengths and limitations of	
Assess the strengths and initiations of	
conort study designs in epidemiological	
research, examining their applications in	
investigating causal relationships and	
predicting health outcomes.	
Case-Control Studies and	
Nested Case-Control Designs: 18 1 Prevalence and Severity of Dental Caries Enidemiology of	
in Different Age Groups:	
in Directit Age Gloups.	
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: 10 1 Definition	
19 1 Definition Periodontal indices	
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	

20	1	Epidemiology of HPV-Related Oral	Epidemiology of	
		Cancer:	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:		
21	1	The epidemiology of malocclusion involves	Epidemiology of malocclusion	
		studying the distribution and		
		determinants of improper alignment of teeth and jaws		
		within populations. Here are		
		some potential research topics		
		malocclusion		
22	1	Longitudinal Data Analysis Techniques:	Biostatistics	
		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		
23	1	Epidemiological Studies	Data presentation	
25		Encerive Data visualization reeninques.	Data presentation	
		Explore best practices and techniques for		
		creating clear and effective data		
		visualizations, including charts, graphs		
		and interactive dashboards		
		Storitalling with Data		
24	1	Comparison of Mean, Median, and Mode	Measures of	
		in Skewed Distributions:	central tendency and dispersion s	
		Investigate the behavior and		
		appropriateness of mean, median, and		
		mode in different types of skewed		

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		distributions, exploring scenarios where			
		one measure may be more suitable than			
		others.			
		Weighted Measures of Central			
25	1	Air Quality and Respiratory Health:	Environment and 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:			
26	1	nformed Consent in Dental Practice:	Forensic Dentistry		
		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:			
27	1	Identification of Human Remains	Forensic		
		through Dental Records:	Dentistry		
		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:			
28	1	Oral Health and Quality of Life in Older	Geriatric		
		Adults:	Dentistry		
		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.			

		Dental Care Access and			
		Utilization in Geriatric Populations:			
29	1	ole of Ultraviolet (UV) Light in Dental	Infection control		
		Infection Control:			
		Investigate the office of LIV light as			
		Investigate the efficacy of 0 v light as	a		
		disinfection method in dental settings,			
		exploring its potential for reducing			
		microbial contamination on surfaces an	nd		
		in the air.			
		Use of Antiseptic Mouthrinses			
20	1	in Infection Control:			
30	I	fficacy of Personal Protective Equipme	techniques		
		(PPE) in Infection Control:			
		Investigate the effectiveness of various			
		PPE components, such as masks, glove	s,		
		gowns, and face shields, in protecting			
		healthcare workers and preventing the			
		transmission of infectious agents.			
		Barrier Techniques for Hand			
100	Carrier	Hygiene Compliance			
180. Distrib	Course oution of	Evaluation the grade out of 100 according to the task	as assigned to the student such as daily preparation		
daily, o	oral, mo	nthly, written exams, reports, etc.	is assigned to the student, such as daily preparation,		
Theory	/ 15% (s	emester exam)			
Practic	al 10% ((weekly exams + seminar + attendance)			
Final e	$xam \cdot 35$	theoretical			
25 pra	ctical				
187.	Learni	ng and Teaching Resources			
Requir	ed textb	oooks (curricular books, if any)			
Main r	eference	es (sources)	Essentials of preventive and community dentistry		
			Essential Dental Public Health 2nd ed by Blanad		
			D, Paul B, Elizabith T, Richard W, 2013. Clinical Textbook of Dental Hygiene and Therapy,		
Kecom	mended	to books and references (scientific			
Electro	nic Ref	erences. Websites			
Licent					






