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



Academic Program and Course Description Guide

College of Dentistry – University of Mosul





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:

<u>Academic Program Description</u>: 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.

<u>Learning Outcomes:</u> 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 Mosul

Faculty/Institute: College of Dentistry

Scientific Department: N/A

Academic or Professional Program Name: Dentistry

Final Certificate Name: Bachelor's Degree in Oral and Maxillofacial Medicine and

Surgery

Academic System: Annual

Description Preparation Date: 01 March 2024 for the 2023-2024 academic year

File Completion Date: 31 March 2024

Signature:

Head of Department Name:

Assist. Prov. Dr.

Rayan Salem Hamed

Date: 24 4. 2024

Signature:

Scientific Associate Name:

Assist, Prov. Dr

Ali Moayid Rasheed

Date: 24.4.2014

The file is checked by: Assist. Lec. Ahmed Dheyaa Fakhre

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 21/4/2924

Signature: A Mul

I authenticate the academic program
for the academic year 2013-2024











Approval of the Dean

Academic Program Description Form

University Name: University of Mosul Faculty/Institute: College of Dentistry **Scientific Department:** N/A **Academic or Professional Program Name:** Dentistry Final Certificate Name: Bachelor's Degree in Dental Surgery (B.D.S.) **Academic System:** Annual **Description Preparation Date:** 01 March 2024 for the 2023-2024 academic year File Completion Date: 31 March 2024 Signature: Signature: Scientific Associate Name: Head of Department Name: Assist Prof Dr Rayan H Salim Assist Prof. Ali M Rasheed Date: Date: The file is checked by: **Department of Quality Assurance and University Performance Director of the Quality Assurance and University Performance Department:** Date: **Signature:**





1. Program Vision

Program vision is written here as stated in the university's catalogue and website.

2. Program Mission

Program mission is written here as stated in the university's catalogue and website.

3. Program Objectives

The College of Dentistry was established in the academic year 1982-1983 to be another basic building block to be added to the rest of the colleges at the University of Mosul. It aims to prepare medical staff specialized in oral and maxillofacial medicine and surgery with a distinguished scientific and professional level. The college contains educational medical clinics in which students are trained. Clinically in modern clinics in all specialties and fields of dentistry (oral and maxillofacial surgery, dental industry, pediatric dentistry, preventive dentistry, orthodontics, dental treatment and periodontal diseases) and with the latest technologies. This is in addition to their teaching in various scientific and applied laboratories, and the duration of study in the college is five years.

4. Program Accreditation

Does the program have program accreditation? And from which agency? No

5. Other external influences

Is there a sponsor for the program?

No





6. Program Structure Program Number of Credit Percentage Reviews* Structure Courses hours Institution N/A Requirements First year – 9 College 38 5% Requirements Second year - 8 10% 40 Third year - 10 45 15% Fourth year - 9 49 30% Fifth year - 9 40% 53 **Department** N/A Requirements 80 hours Forth year Summer **Training** Fifth year 80 hours

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

7. Program Description								
Year/Level	Course Code	Course Name	Credit	Hours				
1 cal/Level	Course Coue	Course wante	theoretical	practical				
	101 MP	Medical Physics	60	60				
	102 PROG	Computer	30	60				
	103 MC	Medical Chemistry	60	60				
	104 MBIO	Medical Biology	60	60				
.	105 DENA	Dental Anatomy	60	60				
First year	106 HRD	Human Rights and Democracy	30	N/A				
	107 ENG English Language and Dental Terminology		30	N/A				
	108 HUMA	Human Anatomy	30	60				
	109 ARL	Arabic Language	30	N/A				





7. Program Description							
Year/Level	Course	Course Name	Credit Hours				
1 cai/Levei	Code	Course Ivallie	theoretical	practical			
	201 HUMA	Human Anatomy	30	60			
	202 PROS	Prosthodontics	30	120			
	203 GHIS	General Histology	60	60			
	204 MPHS	Medical Physiology	60	60			
Second year	205 BICH	Biochemistry	60	60			
	206 OHISE	Oral Histology and	60	60			
	200 OHISE	Embryology	00	00			
	207 DM	Dental Materials	30	60			
	208 BSBS	Biosecurity and Biosafety	15	30			

7. Program Description								
Year/Level	Course Code	Course Name	Credit Hours					
	Course Code	Course wante	theoretical	practical				
	301 PROS	Prosthodontics	30	90				
	302 OSUR	Oral Surgery	30	60				
	303 MICB	Microbiology	60	60				
	304 GPATH	General Pathology	General Pathology 60					
	305 PHAR	Pharmacology	60	60				
Third year	306 PCOD	Preclinical Operative	30	60				
I iii u yeai		Dentistry	30	00				
	307 COMD	Community Dentistry	30	60				
	308 DRAD	Dental Radiology	30	60				
	309 PFP	Preclinical Fixed	30	60				
	JUFFF	Prosthodontics	30	υυ				
	310 DETH	Dental Ethics	30	N/A				





7. Program Description								
Year/Level	Course Code	Course Name	Credit	Hours				
1 cal/Level	Course Coue	Course wante	theoretical	practical				
	401 PERI	Periodontology	30	90				
	402 ORTH	Orthodontics	30	120				
	403 OSUR	Oral Surgery	30	120				
	404 COND	Operative and Esthetic	30	180				
Fourth	404 COND	Dentistry and Endodontics	30	100				
year	405 OPATH	Oral Pathology	60	90				
	406 PROS	Prosthodontics	30	90				
	407 GMED	General Medicine	30	60				
	408 GSUG	General Surgery	30	60				
	409 PED	Paediatric Dentistry	30	60				

7. Program Description							
Year/Level	Course Code	Course Name	Credit Hours				
	Course Coue	Course Ivallie	theoretical	practical			
	501 PERI	Periodontology	30	90			
	502 PRVD	Preventive Dentistry	30	90			
	503 OSUR	Oral Surgery	30	180			
	504 PROS	Prosthodontics	30	180			
		Clinical Endodontics and					
Fifth year	505 CECP	Clinical Fixed	30	180			
		Prosthodontics					
	506 ORTH	Orthodontics	30	120			
	507 PEDO	Pedodontics	30	90			
	508 OMED	Oral Medicine	30	120			
	509 RESP	Research Project	30	N/A			

8. Expected learning outcomes of the program





A tri-i-na	المبر وسطالية
A. Knowledge	
1. The student acquires comprehensive	1. Theoretical tests and practical tests.
knowledge of the scientific terminology	
used in dentistry and the theoretical	
material.	
2. Familiarize the students with different	2. Practical laboratories tests.
types of materials and devices used in	
dentistry.	
3. Enhancing the student's confidence to	3. Practical mannequin skills tests.
deal with all types of patients.	
4. Developing the student's ability to	4. Clinical tests on patients.
deal with different therapeutic cases.	
5. Strengthening the principle of	5. Scientific reports and academic
participation students group discussions	studies.
to discuss a medical condition and the	
method of its treatment.	
6. Providing the student with complete	6. Clinical tests on patients.
knowledge to enable him to prepare an	
integrated treatment plan for the	
patients.	
B. Skills	
1. Promoting professional ethics and	1. Clinical tests on patients.
patients' treatment approach between the	
graduates.	
2. Acquirement of various therapeutic	2. Clinical tests on patients.
skills for the students.	2. Chinear tests on patients.
2. D	2 0 : .: .:
3. Promoting the principle of continuous	3. Scientific reports and academic
education to continue developing the dental profession.	studies.
dental profession.	





C. Ethics	
1. The skill of thinking according to the	1. The student to believe in what is
student's ability (let think about thinking	tangible (the student's ability) and to
ability).	understand when, what and how he
	should think and work to improve the
	ability to think reasonably.
2. Critical thinking skill.	2. Aims to pose a problem, analyze it
	logically, and reach the solution.
3. The balance between freedom and	3. Enhances student's awareness of the
responsibility.	necessity of balance between freedom
	and responsibility, to determine the
	best treatment for the patients.
4. Decision making ability	4. Enhances student's skill of making
	the right decision for the benefit of the
	patient based on logical thinking.

9. Teaching and Learning Strategies

- Giving lectures.
- Providing students with lectures on the college website.
- Educational videos.
- Utilization of projectors and digital cameras.
- Use of educational models.
- Training courses and workshops.
- Applied clinical education.
- Focused student group discussion.

10. Evaluation methods

- Theoretical tests.
- Oral exams.
- Laboratory practical tests.
- Practical mannequin tests.
- Practical tests on patients.
- Scientific reports and academic studies.





- Final year research project (Fifth year).

11. Teachin	ig staff				
Academic Rank	Specializatio	n	Numbe teachin	r of the	
Nank	General	Special	Skills	Staff	Temp
Professor	Science	Microbiology		1	0
Professor	Dentistry	Oral and dental		2	0
		pharmacology			
Professor	Pharmacy	General pharmacology		2	0
Professor	Dentistry	Conservative dentistry		1	0
Professor	Veterinary medicine	Human anatomy		1	0
Professor	Dentistry	Orthodontics		1	0
Professor	Dentistry	Oral and maxillofacial surgery		2	0
Professor	Dentistry	Operative dentistry		1	0
Assistant professor	Statistics	Applicable statistics		2	0
Assistant professor	Science	Oral microbiology		2	0
Assistant professor	Science	Intelligence technology		1	0
Assistant professor	Dentistry	Conservative dentistry		7	0
Assistant professor	Science	Physics		1	0
Assistant professor	Dentistry	Oral pathology		1	0
Assistant professor	Dentistry	Orthodontics		15	0
Assistant professor	Dentistry	Oral and maxillofacial surgery		5	0





Assistant	Dentistry	Prosthodontics	10	0
professor				
Assistant	Dentistry	Preventive dentistry	2	0
professor				
Assistant	Dentistry	Oral medicine	1	0
professor				
Assistant	Science	Biochemistry	2	0
professor				
Assistant	Science	Industrial chemistry	1	0
professor				
Assistant	Science	Physiology	1	0
professor				
Assistant	Literature	Arabic language	1	0
professor				
Assistant	Dentistry	Operative dentistry	5	0
professor				
Lecturer	Dentistry	Oral microbiology	2	0
Lecturer	Pharmacology	Oral pharmacology	3	0
Lecturer	Dentistry	Dental radiology	2	0
Lecturer	Science	Microbiology (bacteria)	1	0
Lecturer	Dentistry	Anatomy and histology	1	0
Lecturer	Dentistry	Endodontics	2	0
Lecturer	Science	Medical physiology	1	0
Lecturer	Science	Chemistry	1	0
Lecturer	Science	Biochemistry	1	0
Lecturer	Dentistry	Periodontology	2	0
Lecturer	Dentistry	Oral histology	2	0
Lecturer	Science	Histology / physiology	2	0
Lecturer	Science	Biotechnology	1	0
Lecturer	Dentistry	Orthodontics	11	0
Lecturer	Dentistry	Oral and maxillofacial	8	0
		surgery		
Lecturer	Dentistry	Prosthodontics	18	0





Lecturer	Dentistry	Preventive dentistry	1	0
Lecturer	Dentistry	Oral medicine	3	0
Lecturer	Dentistry	Conservative dentistry	8	0
Lecturer	Science	Biology	2	0
Lecturer	Science	Physics	1	0
Lecturer	Veterinary	Veterinary physiology	1	0
	medicine			
Lecturer	Science	Medical physics	1	0
Lecturer	Science	Biochemistry	1	0
Lecturer	Science	Organic chemistry	1	0
Lecturer	Dentistry	Operative dentistry	6	0
Lecturer	Dentistry	Oral and maxillofacial	1	0
		tissue engineering		
Assistant	Business and	Strategic administration	1	0
lecturer	administration			
Assistant	Biology	Oral microbiology	1	0
lecturer				
Assistant	Literature	Translation	1	0
lecturer				
Assistant	Economy and	Legal accountancy	1	0
lecturer	administration			
Assistant	Dentistry	General pathology	1	0
lecturer				
Assistant	Dentistry	General histology	1	0
lecturer				
Assistant	Dentistry	Orthodontics	9	0
lecturer				
Assistant	Dentistry	Oral and maxillofacial	9	0
lecturer		surgery		
Assistant	Dentistry	Prosthodontics	13	0
lecturer				
Assistant	Dentistry	Preventive dentistry	6	0
lecturer				





Assistant	Dentistry	Conservative dentistry	15	0
lecturer				
Assistant	Veterinary	Veterinary medicine	1	0
lecturer	medicine	surgery		
Assistant	Veterinary	Physiology	2	0
lecturer	medicine			
	surgery			
Assistant	Dentistry	Paediatric dentistry	1	0
lecturer				
Assistant	Science	Chemistry science	1	0
lecturer				
Assistant	Engineering	Medical devices	2	0
lecturer		engineering		
Assistant	Engineering	Electrical and computer	1	0
lecturer		engineering		
Assistant	Technical	Medical devices electronic	2	0
lecturer	engineering	engineering		
Assistant	Engineering	Computer engineering	2	0
lecturer				

12. Professional Development

Mentoring new faculty members

The enrolment of our teaching staff in the teaching skills development courses held by the University of Mosul through teaching methodologies courses and teaching suitability tests.

The enrolment of our teaching staff in English and Arabic language development courses for teaching and promotion purposes organized by the University of Mosul. The enrolment of our teaching staff in computer skills and medical statistics courses to develop their skills in using modern technologies in teaching.

Professional development of faculty members

Continuously working to measure the performance level of the teaching staff and comparing it with their counterpart in similar educational institutions. Also, to evaluate the teaching staff performance continuously by logging it into integrated





database that allows for proper feedback system, which ultimately contributes to the enhancement of the educational level, that is aiming at advancing the level of quality of services provided to patients.

Organizing continuing education programs for the teaching staff and practicing dentists from other health institutions to develop their scientific, professional and research capabilities. Hence, ensuring the continuous renewal of their information and intellectual capabilities through periodic specialized discussion groups.

13. Acceptance Criterion

Admission criteria include students who have a certain cumulative average according to the central admission system. Students who have the physical, mental, and social ability to manage any medical condition or practice required for study are also selected. Most dental schools require personal interviews with candidates to evaluate qualities such as the desire to help people, self-confidence, and ability to take on challenges, ability to work with people and ability to work independently.

14. The most important sources of information about the program

- 1. The college and university websites.
- 2. The university guide booklet.
- 3. College books and scientific sources.

15. Program Development Plan

Striving through twinning with corresponding dental colleges in prestigious universities locally, regionally and internationally to enhance the academic and scientific performance of the teaching staff and students in the college. Also, through the participation in the academic and scientific forums and meeting locally, regionally and internationally.

The continuous discussion to achieve the best benefit of the e-learning and to increase its impact on the education system to adopt it as adjunct to the traditional teaching methods. As well as, the continuous endeavour of the college to develop its teaching





staff in order to advance the educational process to continue the advancement with the latest teaching methods.

	Program Skills Outline														
						Req	uired	progr	am L	earni	ng ou	tcom	es		
Year /	Course Code	Course Name	Basic or		Know	vledge			Sk	ills			Etl	hics	
Level			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	C3	C4
	101 MP	Medical Physics	Basic	1	√			√	1	1	7	1	1	V	√
	102 PROG	Computer	Basic	1	√			1	1	1	1	√	1	1	√
	103 MC	Medical Chemistry	Basic	1	√			1	1	1	1	V	1	1	√
	104 MBIO	Medical Biology	Basic	1	√			1	1	1	1	√	1	1	√
E4	105 DENA	Dental Anatomy	Basic	1	√			√	1			√	1		
First year	106 HRD	Human Rights and Democracy	Basic	1	1			1	1	V		V	1	√	√
	107 ENG	English Language and Dental Terminology	Basic	1	1	1	1	1	√			V	7	1	√
	108 HUMA	Human Anatomy	Basic	√	√	√	√	1	1		_	1	1	1	√
	109 ARL	Arabic Language	Basic	√	1	√		√	√			1	1	1	√

 $[\]sqrt{}$ Please tick the boxes corresponding to the individual program learning outcomes under evaluation.





Program Skills Outline Required program Learning outcomes **Course Code Course Name** Basic or Knowledge **Skills Ethics** Year / optional Level **A1 A2 A3 B2 C**1 **C2 C3 A4 B1 B3 B4 C4 201 HUMA** Human Anatomy $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Basic Prosthodontics $\sqrt{}$ **202 PROS** Basic **203 GHIS** General Histology Basic **204 MPHS** $\sqrt{}$ Medical Physiology $\sqrt{}$ Basic Second **205 BICH** Biochemistry $\sqrt{}$ $\sqrt{}$ Basic year Oral Histology and **206 OHISE** $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Basic √ $\sqrt{}$ Embryology Dental Materials Basic $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ 207 DM $\sqrt{}$ Biosecurity and Biosafety $\sqrt{}$ $\sqrt{}$ **208 BSBS** Basic

 $[\]sqrt{}$ Please tick the boxes corresponding to the individual program learning outcomes under evaluation.



Preclinical Operative

Community Dentistry

Dental Radiology

Preclinical Fixed

Prosthodontics
Dental Ethics

Dentistry

Third

year

306 PCOD

307 COMD

308 DRAD

309 PFP

310 DETH



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√

√

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 $\sqrt{}$

√

Required program Learning outcomes **Course Code Course Name** Basic or Knowledge **Skills Ethics** Year / Level optional **A1 A2 B2 B3 C1** C2**C3 C4 A3 A4 B1 B4 301 PROS** Prosthodontics Basic $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Oral Surgery $\sqrt{}$ **302 OSUR** $\sqrt{}$ Basic $\sqrt{}$ Microbiology **303 MICB** Basic **304 GPATH** General Pathology Basic Pharmacology $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ **305 PHAR** Basic

 $\sqrt{}$

 $\sqrt{}$

 $\sqrt{}$

 $\sqrt{}$

Program Skills Outline

 $\sqrt{}$ Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Basic

Basic

Basic

Basic

Basic





Program Skills Outline Required program Learning outcomes **Course Code** Course Name Basic or Knowledge **Skills Ethics** Year / Level optional **A1 A2 A3 A4 B1 B2 B3 B4 C1** C2**C3 C4 401 PERI** $\sqrt{}$ Basic Periodontology $\sqrt{}$ **402 ORTH** Orthodontics Basic $\sqrt{}$ Oral Surgery **403 OSUR** Basic Operative and Esthetic $\sqrt{}$ $\sqrt{}$ **404 COND** Dentistry and Basic $\sqrt{}$ √ **Fourth** Endodontics year **405 OPATH** Oral Pathology $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Basic **406 PROS** Prosthodontics Basic **407 GMED** General Medicine $\sqrt{}$ Basic $\sqrt{}$ **408 GSUG** | General Surgery Basic $\sqrt{}$ **409 PED** Paediatric Dentistry Basic

 $[\]sqrt{}$ Please tick the boxes corresponding to the individual program learning outcomes under evaluation.





Program Skills Outline Required program Learning outcomes **Course Code** Course Name Knowledge **Ethics** Basic or **Skills** Year / Level optional **A1 A2 A3 B2 B3 B4 C1** C2**C3 C4 A4 B1 501 PERI** Periodontology Basic $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Preventive Dentistry $\sqrt{}$ **502 PRVD** Basic Oral Surgery $\sqrt{}$ $\sqrt{}$ **503 OSUR** Basic $\sqrt{}$ Prosthodontics $\sqrt{}$ **504 PROS** Basic Clinical Endodontics and **Fifth 505 CECP** Clinical Fixed $\sqrt{}$ $\sqrt{}$ Basic $\sqrt{}$ $\sqrt{}$ year Prosthodontics **506 ORTH** Orthodontics $\sqrt{}$ $\sqrt{}$ Basic $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ √ $\sqrt{}$ √ **507 PEDO** Pedodontics Basic Oral Medicine $\sqrt{}$ $\sqrt{}$ **508 OMED** Basic Research Project $\sqrt{}$ **509 RESP** Basic

 $[\]sqrt{}$ Please tick the boxes corresponding to the individual program learning outcomes under evaluation.





Course Description – First year Course Description Form

1. Course	e Name:				
	Medical Physics				
2. Course	e Code:				
	101 MP				
3. Semes	ter / Year:				
	First year				
4. Descri	ption Preparation Date:				
	01 March 2024				
5. Availa	ble Attendance Forms:				
	Theoretical and practical				
6. Numb	er of Credit Hours (Total) / Number of Units (Total)				
Theoretical:	60 hours, practical: 60 hours. Total units: 6				
7. Course	e administrator's name (mention all, if more than one name)				
Name:	: Assistant professor Atyaf Subhi Alrawas				
Email:	atyafalrawas@uomosuledu.iq				
8. Course	e Objectives				
Course	- Introduction to basic physics.				
Objectives	- Study of medical physics related to dentistry.				
	- Practical experiments for physical properties and phenomena.				
9. Teach	ing and Learning Strategies				
Strategy	- Theory lectures and practical laboratories.				
	 Educational videos and utilization of smart boards. 				
	- Use of educational models.				
	- Focused student group discussion.				





10. Course Structure

Theoretical part					
Week	Hr	Required Learning Outcomes	Unit or subject	Learning	Evaluation
			name	method	method
		Terms: Medical Physics, physical	Terminology	Theory	Theory
1	2	medicine, Physical therapy,		lectures	exam
		Health Physics, Radiological			
		Physics, clinical physics.	- · · ·		
2	2	Modeling, Accuracy, Precision,	Terminology	Theory	Theory
		False Positive, False Negative.		lectures	exam
3	2	Static forces : (type of levers with	Force on ∈	Theory	Theory
		medical examples).	body	lectures	exam
4	2	Dynamic forces (Centrifuge)	Force on ∈	Theory	Theory
			body	lectures	exam
		Bones:(Function of bones,	Physics of the	Theory	Theory
5	2	Composition of bone, bone	skeleton	lectures	exam
		remodeling, compact and			
		trabecular bone)	71 . 0 1		
		Stress-strain curve: (compressive	Physics of the	Theory	Theory
		and tensile stress, young	skeleton	lectures	exam
6	2	modulus).			
		Bone joints: (Synovial fluid,			
		coefficient of a joint).	TT4 111 '	T1	T1
		Physical basis of heat and	Heat and cold in medicine	Theory	Theory
		temperature, Temperature scales,	medicine	lectures	exam
7	2	Converting Temperatures, Temperature in Dentistry,			
,	2	Thermal			
		expansion, (Linear, Area,			
		Volume Thermal Expansion).			
		Thermometry, Heat therapy,	Heat and cold in	Theory	Theory
_	_	Thermography, Cold in medicine	medicine	lectures	exam
8	2	and cryosurgery. Thermal			
		conductivity.			
		First law of thermodynamic.	Energy, work	Theory	Theory
9	2	Energy change in the body (Met,	and power of the	lectures	exam
		Basal metabolic rate (BMR).	body		





	203)47	Work and power. Efficiency heat	Energy, work	Theory	Theory
		losses from the body. Anaerobic	and power of the	lectures	exam
		phase and aerobic phase.	body		
1.0		Hypothalamus (body's	•		
10	2	thermostat).Heat lost by			
		(radiation, convection,			
		evaporation of sweat and			
		respiration).			
		Definition, absolute pressure,	Pressure	Theory	Theory
		gauge pressure, negative		lectures	exam
1.1		pressure, unit of pressure.			
11	2	Measurement of pressure in the			
		body			
		(Manometer).			
		Pressure inside the skull. Eye	Pressure	Theory	Theory
		pressure. Pressure in the skeleton.		lectures	exam
1.2	2	Pressure in the urinary bladder.			
12	2	Boyle's law: (pressure while			
		diving). HOT (hyperbaric oxygen			
		therapy).			
		Electrical potential of nerves	Electricity	Theory	Theory
13	2	(resting potential, action potential	within the body	lectures	exam
13		in myelinated and unmyelinated			
		nerves) Electromyogram (EMG).			
		Electrical potential in the heart	Electricity	Theory	Theory
14	2	(electrocardiogram	within the body	lectures	exam
		Electroencephalogram (EEG).			
15	2	Properties of sound.	Sound in	Theory	Theory
13			medicine	lectures	exam
16	2	Stethoscope (including heart	Sound in	Theory	Theory
10		sound), mechanism of hearing.	medicine	lectures	exam
17	2	(A-scan, B-scan, M-scan and	Ultrasound	Theory	Theory
1 /		Doppler effect).		lectures	exam
18	2	Physiological effect of	Ultrasound	Theory	Theory
10		ultrasound in therapy.		lectures	exam
		Light nature, Planck Equation,	Light in	Theory	Theory
19	2	(Reflection, Refraction and	medicine	lectures	exam
		Absorption of Light, Properties			
		of light).			





		Diffuse reflection, Specular	Light in	Theory	Theory
		reflection, Phototherapy,	medicine	lectures	exam
20	2	Application of ultraviolet and			
		infrared light in medicine,			
		Tanning and Skin Cancer.			
		What is laser? Application of	Laser in	Theory	Theory
		laser in medicine. Atomic	medicine	lectures	exam
21	2	Transitions, Population	medicine	iociares	C/Kuiii
	_	inversion, Laser Typical			
		Characteristics.			
		General Applications of Laser,	Laser in	Theory	Theory
		Laser Dental. Applications,	medicine	lectures	exam
22	2	Reshape gum tissue, Laser aided			
		teeth whitening, Laser Drill.			
	_	Focusing element of the eye	Physics of eye	Theory	Theory
23	2	(cornea, lens).	and vision	lectures	exam
		Element of the eye (pupil,	Physics of eye	Theory	Theory
	_	aqueous humor, vitreous humor,	and vision	lectures	exam
24	2	sclera). Visual acuity, Snellen			
		chart, optical density.			
		Properties of X-ray, production	Physics of	Theory	Theory
		of X-ray. Absorption of X-ray,	diagnostic X-ray	lectures	exam
25	2	contrast media-ray image			
		(penumbra, grid, and			
		intensifying screens).			
26	2	Radiation to patients from X-ray	Physics of	Theory	Theory
26	2	(filters).	diagnostic X-ray	lectures	exam
		Radioactivity decay, half-life,	Physics of	Theory	Theory
		units. Basic instrumentation and	nuclear	lectures	exam
27	2	its medical application (GM-	medicine		
27	2	tube, Photomultiplier tube,			
		scintillation detector, solid state			
		detector).			
		Therapy with radioactivity.	Physics of	Theory	Theory
28	2	Radiation doses in nuclear	nuclear	lectures	exam
		medicine.	medicine		
29	2	The dose units (Rad and Gray).	Physics of	Theory	Theory
29		Principles of radiation therapy.	radiation therapy	lectures	exam





	البداد الله	<u> </u>		T = -			
30	2	Brach therapy, quality factor Physics of radiation therapy	Theory lectures	Theory exam			
Practic	Practical part						
Week							
WCCK	111	Laboratory subject	method	method			
		Guidelines of Medical Physics Lab and Rules must	Practical	Practical			
1	2	be obeyed by the students	work	exam			
		Graphing Techniques	Practical	Practical			
2	2	Graphing recliniques	work	exam			
		Ohm's law: - verify ohm's law - to find the value of	Practical	Practical			
3	2	different values of resistance	work	exam			
			Practical	Practical			
4	2	Ohm's law: - verify ohm's law - to find the value of different values of resistance					
			work	exam Practical			
5	2	Semiconductors (junction diode): To determine the	Practical				
3	2	characteristics of the semiconductors Comparison between omic and non-omic resistance	work	exam			
			Practical	Practical			
	2	Semiconductors (junction diode): To determine the					
6	2	characteristics of the semiconductors Comparison	work	exam			
		between omic and non-omic resistance	D4:1	D			
7	2	Cathode ray oscilloscope to measure D.C voltage	Practical	Practical			
		Cathodo may assillassama to massayma A Cyvaltaga	work Practical	exam Practical			
8	2	Cathode ray oscilloscope to measure A.C voltage					
		The feed length of convey lengt Daych value of	work Practical	exam Practical			
		The focal length of convex lens: -Rough value of					
9	2	focal length of different convex lenses, -A graphical	work	exam			
		method of measuring of focal length, Comparison					
		between these methods and the given value. The focal length of convex lens: -Rough value of	Drostica1	Practical			
		focal length of different convex lenses, -A graphical	work				
10	2	method of measuring of focal length, Comparison	WOIK	exam			
		between these methods and the given value. Hook's law: -To verify Hook's law and determine the	Practical	Practical			
11	2	force constant of the springTo determine the work	work	exam			
1,1		done by stretching the spring	WOIK	CAGIII			
		Hook's law: -To verify Hook's law and determine the	Practical	Practical			
12	2	force constant of the springTo determine the work	work	exam			
12		done by stretching the spring	WOIK	CAGIII			
		Focal length of concave mirror: -Locating the radius	Practical	Practical			
13	2	of curvature Determining the focal length	work	exam			
		or our value Determining the rocal length	WOIK	CAGIII			





14	2	Focal length of concave mirror: -Locating the radius	Practical	Practical
14	2	of curvature Determining the focal length	work	exam
15	2	General review and exam	Practical	Practical
13	2		work	exam
		Laser applications: -To measure the width of a single	Practical	Practical
16	2	slit by using a laser To measure the wavelength of	work	exam
		laser by using a certain single slit		
		Laser applications: -To measure the width of a single	Practical	Practical
17	2	slit by using a laser To measure the wavelength of	work	exam
		laser by using a certain single slit		
18	2	Boyle's law: -To verify Boyle's law -To measure the	Practical	Practical
10	4	pressure of the atmosphere	work	exam
19	2	Boyle's law: -To verify Boyle's law -To measure the	Practical	Practical
19	2	pressure of the atmosphere	work	exam
		Inverse Square law: - To verify the inverse square	Practical	Practical
20	2	law - Radiation shielding by different thicknesses of	work	exam
		a certain material		
		Inverse Square law: - To verify the inverse square	Practical	Practical
21	2	law - Radiation shielding by different thicknesses of	work	exam
		a certain material		
		Viscosity of a liquid - To determine the viscosity of	Practical	Practical
22	2	a medium using a small sphere falls with a constant	work	exam
		terminal velocity To verify Stokes' law		
		Viscosity of a liquid - To determine the viscosity of	Practical	Practical
23	2	a medium using a small sphere falls with a constant	work	exam
		terminal velocity To verify Stokes' law		
		Velocity of the sound - To measure the velocity of	Practical	Practical
24	2	the sound by using a resonance tube, closed at one	work	exam
		end, at room temperature Calculated the		
25	2	theoretical and practical values of the velocity of	Practical	Practical
23		sound and comparing between them	work	exam
		Velocity of the sound - To measure the velocity of	Practical	Practical
		the sound by using a resonance tube, closed at one	work	exam
26	2	end, at room temperature Calculated the theoretical		
		and practical values of the velocity of sound and		
		comparing between them		
27	2	The focal length of a converging lens - To determine	Practical	Practical
27		the focal length of a converging lens by lens	work	exam





		displacement method using conjugate foci To		
		calculate curvature value of this converging lens		
		The focal length of a converging lens - To determine	Practical	Practical
28	2	the focal length of a converging lens by lens	work	exam
28	2	displacement method using conjugate foci To		
		calculate curvature value of this converging lens		
		Simple Pendulum -To determine the periodic time	Practical	Practical
29	2	and its variation with the length of the pendulum -To	work	exam
		calculate the acceleration of free fall		
		Simple Pendulum -To determine the periodic time	Practical	Practical
30	2	and its variation with the length of the pendulum -To	work	exam
		calculate the acceleration of free fall		
		·		

11. Course evaluation

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

12.Learning and Teaching Resources				
Required textbooks (curricular books, if	Medical Physics (John Cameron)			
any)	Physics of the human body(Irving			
	Herman)			
Main references (sources)	Some other general references			
Recommended books and references				
(scientific journals, reports)				
Electronic References, Websites				





Course Description Form

1. (Cour	se Name:			
	Computer				
2. (Cour	se Code:			
			102 PROG		
3. S	Seme	ester / Year:			
			First year		
4. I	Desc	ription Preparation Date:			
			March 2024		
5. A	Avail	able Attendance Forms:			
			tical and practica		
		ber of Credit Hours (Total)		<u> </u>	
		30 hours, practical: 60 ho			
		se administrator's name (m		re than one nam	ne)
		e: Assistant Professor Reen	5		
		l: aljaraah@uomosuledu.io	7		
Course		se Objectives	tan saiamaas		
		- Introduction to compu		lantistm	
Object	1162	Study of computer sofPractical hand-on usin		-	
		- Tractical hand-on usin	g whereson Om	ce suite.	
9. 7	[eac]	ning and Learning Strategi	es		
Strateg	gy	- Theory lectures and	d practical labora	itories.	
		 Educational videos 	and utilization o	of smart boards.	
		 Use of educational 	models.		
	 Focused student group discussion. 				
Todased student group discussion.					
		Structure			
Week	Hr	Required Learning	Unit or subject	Learning	Evaluation
		Outcomes	name	method	method





		Introduction about	Introduction	Theory lectures	Theory exam
		computer, Hardware and			j
1	1	Software, computer			
		structure, Floppy magnetic			
		disks			
2	1	E-learning	E-learning	Theory lectures	Theory exam
3	1	Google Classroom Platform,	E-learning	Theory lectures	Theory exam
	1	Google drive			
4	1	Google forms	E-learning	Theory lectures	Theory exam
5	1	Online conferencing	E-learning	Theory lectures	Theory exam
		Introduction about	Windows	Theory lectures	Theory exam
		Windows, A look at			
6	1	Windows 10, Stating			
		Windows 10, Working with			
		a windows Programs			
7	1	Working with files and	Windows	Theory lectures	Theory exam
,	1	folders, Using My computer			
8	1	Working with Taskbar and	Windows	Theory lectures	Theory exam
	1	Desktop			
9	1	Using Windows Accessories	Windows	Theory lectures	Theory exam
10	1	A look at Control Panel	Windows	Theory lectures	Theory exam
11	1	Widows Explorer	Windows	Theory lectures	Theory exam
12	1	Libraries	Windows	Theory lectures	Theory exam
		Introduction about	Microsoft Word	Theory lectures	Theory exam
13	1	Microsoft Word 2016, A			
13	1	look at Microsoft Word,			
		Editing Document			
14	1	Formatting Text	Microsoft Word	Theory lectures	Theory exam
15	1	Formatting paragraphs	Microsoft Word	Theory lectures	Theory exam
16	1	Proofing documents	Microsoft Word	Theory lectures	Theory exam
17	1	Adding Tables	Microsoft Word	Theory lectures	Theory exam
18	1	Inserting Graphic Elements	Microsoft Word	Theory lectures	Theory exam
19	1	Controlling page	Microsoft Word	Theory lectures	Theory exam
19	1	Appearance			
20	1	Introduction about Excel, A	Microsoft Excel	Theory lectures	Theory exam
20	1	Look at Microsoft Excel			
21	1	Modifying A Worksheet,	Microsoft Excel	Theory lectures	Theory exam
21	1	performing Calculations	Microsoft Excel		





22	1	Formatting a worksheet,	Microsoft Excel	Theory lectures	Theory exam
22	1	Developing a workbook			
		Printing Workbook	Microsoft Excel	Theory lectures	Theory exam
23	1	Contents, Customizing			
		Layout			
		Introduction about	Microsoft	Theory lectures	Theory exam
24	1	Microsoft Access, A look at	Access		
		Microsoft Access			
25	1	Creating Data tables,	Microsoft	Theory lectures	Theory exam
23	1	properties of the fields	Access		
		Querying the database,	Microsoft	Theory lectures	Theory exam
26	1	Designing Forms/Producing	Access		
		reports			
		Introduction about	Microsoft Power	Theory lectures	Theory exam
27	1	Microsoft Power point,	point		
		starting power point 2016			
28	1	Formatting text, Using	Microsoft Power	Theory lectures	Theory exam
20	1	graphics and Text	point		
29	1	Manipulating the slides,	Microsoft Power	Theory lectures	Theory exam
29	1	Using Multimedia Elements	point		
30	1	Power point Management	Microsoft Power	Theory lectures	Theory exam
30	I		point		

Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Introduction about computer /Hardware and Software/computer structure/`Floppy magnetic disks	Practical work	Practical exam
2	2	Operating systems/CD-ROM/	Practical work	Practical exam
3	2	Create Files &Folders High level programming language /Constant and variable/Library Function /Arithmetic expression/Type of Monitor /Number of systems	Practical work	Practical exam
4	2	Introduction about MS-DOS Operating systems/DOS drive /Key-Board	Practical work	Practical exam
5	2	DOS commands /Internal Commands/External Commands	Practical work	Practical exam
6	2	Introduction about Windows /A look at Windows 7/Stating Windows	Practical work	Practical exam





	30213			
		7/Working with a windows Program		
7	2	Working with files and folders/ Using My computer	Practical	Practical
/			work	exam
8	2	Working with Taskbar and Desktop	Practical	Practical
8	2		work	exam
9	2	Using Windows Accessories	Practical	Practical
9	2		work	exam
10	2	A look at Control Panel	Practical	Practical
10	2		work	exam
11	2	Windows Explorer	Practical	Practical
			work	exam
12	2	Libraries	Practical	Practical
12	2		work	exam
		Introduction about Microsoft Word A look at	Practical	Practical
13	2	Microsoft Word /Editing	work	exam
		Document	D : 1	D .: 1
14	2	Formatting Text/	Practical	Practical
		The second secon	work	exam
15	2	Formatting paragraphs	Practical	Practical
			work	exam
16	2	Proofing documents	Practical	Practical
			work	exam
17	2	Adding Tables	Practical	Practical
			work	exam
18	2	Inserting Graphic Elements	Practical	Practical
		a	work	exam
19	2	Controlling page Appearance	Practical	Practical
_			work	exam
20	2	Introduction about Excels /A Look at Microsoft	Practical	Practical
		Excel	work	exam
21	2	Modifying A Worksheet /performing Calculations	Practical	Practical
			work	exam
22	2	Formatting a worksheet/ Developing a work book	Practical	Practical
			work	exam
23	2	Printing Workbook Contents/Customizing Layout	Practical	Practical
			work	exam
24	2	Introduction about Microsoft Access/ A look at	Practical	Practical
		Microsoft Access	work	exam
25	2	Creating Data tables /properties of the fields	Practical	Practical
			work	exam





26	2	Querying the database/Designing Forms/Producing	Practical	Practical
		reports	work	exam
27	2	Introduction about Microsoft Power point/starting	Practical	Practical
		power point	work	exam
28	2	Formatting text/Using graphics and Text	Practical	Practical
			work	exam
29	2	Manipulating the slides/Using Multimedia Elements	Practical	Practical
			work	exam
30	2	Power point Management	Practical	Practical
	2		work	exam
11 ~	-	5 1 ·		

11. Course Evaluation

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

12.Learning and Teaching Resources						
Required textbooks (curricular	Principles of computers – Volume 1 and					
books, if any)	Volume 2					
Main references (sources)						
Recommended books and references						
(scientific journals, reports)						
Electronic References, Websites						





Course Description Form

				_	
1. Cou	ırse Name:				
			Medical C	Chemistry	
2. Cou	ırse Code:				
			103	МС	
3. Sen	nester / Yea	r:			
			First	year	
4. Des	scription Pre	eparation D	ate:		
			01 Marc	h 2024	
5. Available Attendance Forms:					
Theoretical and practical					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theoretica	al: 60 hours	, practical:	60 hours. T	otal units: 6	Ó
7. Cou	ırse admini	strator's nar	ne (mention	all, if mor	e than one name)
Name: Lecturer Dr Ammar Abdulghani					
Em	ail: dramma	ar@uomosu	l.edu.iq		
8. Cou	ırse Objecti	ves			
Course Objectives		- Introduction to basic chemistry.			
		- Study of medical chemistry related to dentistry.			
		- Practical experiments for chemical properties and			
		phenomena.			
9. Teaching and Learning Strategies					
Strategy		 Theory lectures and practical laboratories. 			
		 Educational videos and utilization of smart boards. 			
		- Use of educational models.			
		 Focused student group discussion. 			
10. Cours	se Structure				
Week	Hr	Required	Unit or	Learning	Evaluation method
		Learning	subject	method	
		Outcomes	name		





1	2	Acid,	Acid, Base	Theory	Theory exam
1		Base and	ricia, Dasc	lectures	Thoofy Cauli
				icciuies	
2	2	Salt	C 14	771	TI
2	2	Salts,	Salts	Theory	Theory exam
		preparatio		lectures	
		n of salts			
3	2	Fluid and	electrolyte	Theory	Theory exam
		electrolyte		lectures	
4	2	Buffer-pH	Buffer-pH	Theory	Theory exam
		and Acid-		lectures	
		Base			
		Balance			
5	2	Acid-base	Buffer-pH	Theory	Theory exam
		balance	1	lectures	
		and blood			
		рН			
6	2	Colloids	Colloids	Theory	Theory exam
	2	and	Conoids	lectures	Theory exam
		colloidal		icciares	
		dispersion			
7	2	S	C1 : 1:	TD1	TI.
7	2	Chirality	Chirality	Theory	Theory exam
		in		lectures	
		Biological			
		Systems			
8	2	Concentra	Concentra	Theory	Theory exam
		tion,	tion	lectures	
		preparatio			
		n of			
		solutions			
9	2	Pollution	Pollution	Theory	Theory exam
				lectures	
10	2	Radioche	Radioche	Theory	Theory exam
	_	mistry	mistry	lectures	
11	2	Alkanes	Alkanes	Theory	Theory exam
		and	Minanes	lectures	Theory exam
				icciuies	
		Cycloalka			
		nes			





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12	2	Alkenes	Alkenes	Theory	Theory exam
		and		lectures	
		Alkynes			
13	2	Aromatic	Aromatic	Theory	Theory exam
		compound	compound	lectures	
		S	S		
14	2	Aromatic	Aromatic	Theory	Theory exam
		compound	compound	lectures	
		s in	S		
		Nature			
15	2	Stereoiso	Stereoiso	Theory	Theory exam
		mers of	mers	lectures	
		Carbon			
16	2	Diastereo	Diastereo	Theory	Theory exam
		mers	mers	lectures	
17	2	Alcohols,	Alcohols	Theory	Theory exam
		Phenols,		lectures	
		Ethers and			
		Thiols			
		(preparati			
		on,			
		reactions)			
18	2	Carboxyli	Carboxyli	Theory	Theory exam
		c Acids	c Acids	lectures	
		And Their			
		Derivative			
		s, part 1			
19	2	Carboxyli	Carboxyli	Theory	Theory exam
		c Acids	c Acids	lectures	
		And Their			
		Derivative			
		s part 2			
20	2	Aldehydes	Aldehydes	Theory	Theory exam
		and		lectures	
		ketones			
21	2	Carbohydr	Carbohydr	Theory	Theory exam
		ates	ates	lectures	
22	2	Monosacc	Monosacc	Theory	Theory exam
		haride's	haride	lectures	
					-





-زدلان					
23	2	Disacchari des Carbohydr ates and oral health	Disacchari des	Theory lectures	Theory exam
24	2	Lipids	Lipids	Theory lectures	Theory exam
25	2	Derived lipids, The role of lipids in teeth diseases	Lipids	Theory lectures	Theory exam
26	2	Proteins	Proteins	Theory lectures	Theory exam
27	2	Amino acids, Effects of protein on oral health	Proteins	Theory lectures	Theory exam
28	2	Nucleic Acids	Proteins	Theory lectures	Theory exam
29	2	Nucleosid es, Nucleotid es	Proteins	Theory lectures	Theory exam
30	2	Deoxy and ribo Nucleic acids	Proteins	Theory lectures	Theory exam





Practical part					
Week	Hr	Laboratory subject	Learning method	Evaluation method	
1	2	Action of Strong Base and Acids	Practical work	Practical exam	
2	2	Solubility rules and Applications (Solubility rules of salts).	Practical work	Practical exam	
3	2	Test for negative ions (Anions).part 1	Practical work	Practical exam	
4	2	Test for negative ions (Anions). part 2	Practical work	Practical exam	
5	2	PH meter	Practical work	Practical exam	
6	2	Test for positive ions (Cations). part 1	Practical work	Practical exam	
7	2	Test for positive ions (Cations). part 2	Practical work	Practical exam	
8	2	Titration	Practical work	Practical exam	
9	2	Safety of chemicals - part 1	Practical work	Practical exam	
10	2	Safety of chemicals - part 2	Practical work	Practical exam	
11	2	Hydrocarbons	Practical work	Practical exam	
12	2	Aliphatic Hydrocarbons	Practical work	Practical exam	
13	2	Aromatic hydrocarbons, part 1	Practical work	Practical exam	
14	2	Aromatic hydrocarbons, part 2	Practical work	Practical exam	





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15	2	Preparation of aspirin	Practical work	Practical exam
16	2	Alcohol	Practical work	Practical exam
17	2	Phenols reactions	Practical work	Practical exam
18	2	Carboxylic Acids reactions - part 1	Practical work	Practical exam
19	2	Carboxylic Acids reactions - part 2	Practical work	Practical exam
20	2	Aldehydes and ketones	Practical work	Practical exam
21	2	Carbohydrates reactions	Practical work	Practical exam
22	2	Monosaccharides reactions	Practical work	Practical exam
23	2	Disaccharides reactions	Practical work	Practical exam
24	2	Lipids reactions - part 1	Practical work	Practical exam
25	2	Lipids reactions - part 2	Practical work	Practical exam
26	2	Proteins reactions	Practical work	Practical exam
27	2	Amino acids reactions	Practical work	Practical exam
28	2	Paper chromatography - part 1	Practical work	Practical exam
29	2	Paper chromatography - part 2	Practical work	Practical exam
30	2	Osmosis	Practical work	Practical exam





as daily preparation, daily oral, monthly, or written exams, reports etc			
12.Learning and Teaching Reso	ources		
Required textbooks (curricular			
books, if any)			
Main references (sources)			
Recommended books and			
references (scientific journals,			
reports)			
Electronic References,			
Websites			





1. Course Name:	
	Medical Biology
2. Course Code:	
	104 MBIO
3. Semester / Yea	ır:
	First year
4. Description Pro	eparation Date:
	01 March 2024
5. Available Atte	ndance Forms:
	Theoretical and practical
	edit Hours (Total) / Number of Units (Total)
	, practical: 60 hours. Total units: 6
	strator's name (mention all, if more than one name)
	r Dr Maha Khalid Jameel
	jameely@uomosul.edu.iq
8. Course Objecti	
Course Objectives	- Introduction to medical biology.
	- Study of medical biology related to dentistry.
	- Study of parasitology, causes and treatment.
0. 7. 1: 17	
	Learning Strategies
Strategy	 Theory lectures and practical laboratories.
	 Educational videos and utilization of smart boards.
	- Use of educational models.
	 Focused student group discussion.
	- Seminars
	- Critical thinking
	Cition minking





Week	Hr	Required	Unit or	Learning	Evaluation method
		Learning	subject	method	
		Outcomes	name		
1	2	Introducti	Introducti	Theory	Theory exam
		on to	on	lectures	
		Medical			
		and oral			
		Biology			
2	2	Prokaryot	Prokaryot	Theory	Theory exam
		es and	es	lectures	
		Eukaryote			
		S			
3	2	General	Immunity	Theory	Theory exam
		and oral		lectures	
		Immunity			
4	2	Bacteria	Bacteria	Theory	Theory exam
		and oral		lectures	
		disease			
5	2	Genetics	Genetics	Theory	Theory exam
		and its		lectures	
		role in			
		oral			
		diseases			
6	2	Simple	epithelial	Theory	Theory exam
		epithelial	tissue	lectures	
		tissue			
		(Tongue)			
7	2	Stratified	epithelial	Theory	Theory exam
		epithelial	tissue	lectures	
		tissue			
8	2	Glandular	epithelial	Theory	Theory exam
		epithelial	tissue	lectures	
		tissue			
		(salivary			
		gland)			





9	2	General	connective	Theory	Theory exam
9	2		tissue	1	Theory exam
		connective	ussue	lectures	
		tissue			
		(blood)			
10	2	Muscular	connective	Theory	Theory exam
		tissue	tissue	lectures	
11	2	Nerve	connective	Theory	Theory exam
		tissue	tissue	lectures	
12	2	Cell	Cells	Theory	Theory exam
		structure		lectures	
		(oral			
		mucus			
		membrane			
)			
13	2	Plasma	Cells	Theory	Theory exam
		membrane		lectures	
		structure			
14	2	Passage of	Cells	Theory	Theory exam
	_	Materials		lectures	
		across		lectares	
		Cell			
		Membrane			
15	2	Cell cycle	Cells	Theory	Theory exam
13	2	Cell Cycle	Cells	lectures	Theory exam
16	2	Mitosis	Cells		T1
10	2		Cells	Theory	Theory exam
		and		lectures	
1-		meiosis	~ 11		
17	2	Cell	Cells	Theory	Theory exam
		energy		lectures	
18	2	Nucleic	Nucleic	Theory	Theory exam
		acid, DNA	acid	lectures	
		and RNA			
19	2	Introducti	parasitolo	Theory	Theory exam
		on to	gy	lectures	
		parasitolo			
		gy			
20	2	Types of	parasitolo	Theory	Theory exam
		parasites	gy	lectures	
		and host			
			l	<u> </u>	





	37				
21	2	General	protozoa	Theory	Theory exam
		and oral		lectures	
		protozoa			
22	2	Human	protozoa	Theory	Theory exam
		amoebas,		lectures	
		E.			
		histolytica			
		, E.coli, E.			
		gingivalis			
23	2	Flagellates	Flagellates	Theory	Theory exam
		, Giardia		lectures	
		lamblia,			
		Trichomo			
		nas tenax,			
		T.			
		hominas,			
		T.			
		vaginalis			
24	2	Leishmani	Leishmani	Theory	Theory exam
		a ,	a	lectures	
		cutaneous			
		and			
		vesical			
25	2	Sporozoa,	Sporozoa	Theory	Theory exam
		Plasmodiu		lectures	
		m spp.			
26	2	Toxoplas	Toxoplas	Theory	Theory exam
		ma gondii	ma	lectures	
27	2	Nemathel	Worms	Theory	Theory exam
		minthes,		lectures	
		Ascaris			
		lumbricoi			
		des,			
28	2	Ancylosto	Worms	Theory	Theory exam
		ma		lectures	
		duodenale			
		,			
		Entrobius			
		vermicular			
		is			





icing				¥-3,1
29	2	Platyhelmi Worms nthes, Fasciola hepatica	Theory lectures	Theory exam
30	2	Schistoso Worms ma spp.	Theory lectures	Theory exam
Practical 1	part			
Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Laboratory safety	Practical work	Practical exam
2	2	Parts of microscope	Practical work	Practical exam
3	2	Types of cells	Practical work	Practical exam
4	2	Simple epithelial tissue	Practical work	Practical exam
5	2	Stratified epithelia tissue	Practical work	Practical exam
6	2	Glandular epithelial tissue	Practical work	Practical exam
7	2	Serous, Mucous, Sero- mucous cell glands	Practical work	Practical exam
8	2	Proper connective tissue, Loose	Practical work	Practical exam
9	2	Proper connective tissue, dense	Practical work	Practical exam
10	2	Special connective tissue, type of cells	Practical work	Practical exam
11	2	Cartilage, Hyaline, Elastic, Fibro	Practical work	Practical exam
12	2	Compact and spongy bone	Practical work	Practical exam
13	2	Human Blood, W.B.C, R.B.C and frog blood	Practical work	Practical exam





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14	2	Muscular tissue: Skeletal, cardiac and smooth muscles	Practical work	Practical exam
15	2	Nerve cell	Practical work	Practical exam
16	2	Central and peripheral nerve system	Practical work	Practical exam
17	2	Spinal cord and meninges	Practical work	Practical exam
18	2	Entamoeba histolytica, Entamoeba coli	Practical work	Practical exam
19	2	Giardia lamblia, Trichomonas vaginalis, Trichomonan tenax	Practical work	Practical exam
20	2	Leishmania tropica, Leshmania donovani	Practical work	Practical exam
21	2	Trypanosoma gambiense, T. rhodesiense	Practical work	Practical exam
22	2	Plasmodium vivax, Toxoplasma gondii	Practical work	Practical exam
23	2	Balantidium coli	Practical work	Practical exam
24	2	Echinococcus granulosus, Tania saginata Taenia solium	Practical work	Practical exam
25	2	Ancylostoma, Ascaris, Entrobius	Practical work	Practical exam
26	2	Schistosoma spp, Fasciola hepatica	Practical work	Practical exam
27	2	Endoskeleton of frog	Practical work	Practical exam
28	2	Experiment - examine samples of water	Practical work	Practical exam





29	2	Experiment - examine	Practical	Practical exam
		samples of water (one	work	
		hour)		
		Experiment - Blood		
		groups (one hour)		
30	2	Experiment - Blood	Practical	Practical exam
		groups	work	

, , , ,	<i>y</i> 1
12.Learning and Teaching Reso	ources
Required textbooks (curricular	
books, if any)	
Main references (sources)	
Recommended books and	
references (scientific journals,	
reports)	
Electronic References,	
Websites	





				_	
1. Cou	ırse Name:				
	Dental Anatomy				
2. Cou	ırse Code:				
			105 D	ENA	
3. Sen	nester / Yea	r:			
			First	year	
4. Des	cription Pre	eparation D	ate:		
			01 Marc	h 2024	
5. Ava	ilable Atter	ndance For	ns:		
		T	heoretical a	nd practica	1
6. Nur	nber of Cre	dit Hours (Total) / Nu	mber of Un	its (Total)
Theoretica	ıl: 60 hours	, practical:	60 hours. T	otal units: 6	<u> </u>
7. Cou	irse adminis	strator's nan	ne (mentior	all, if mor	e than one name)
		r Zena Moh			
Ema	ail: Zenamo	hammad@	uomosul.ed	lu.iq	
	ırse Objecti				
Course O	bjectives			man teeth a	•
					and eruption timetable.
- Pr			•	nd hands-	on on teeth drawing and
		sculptu	re.		
9. Tea	ching and I	Learning Str	rategies		
Strategy	·	- The	ory lectures	s and practi	cal laboratories.
			-	_	ilization of smart boards.
				onal models	
	 Focused student group discussion. 			cussion.	
10. Cours	se Structure				
Week	Hr	Required	Unit or	Learning	Evaluation method
		Learning	subject	method	
1	2	Outcomes Introducti	name Introducti	Theory	Theory evam
1	<u> </u>	on	on	Theory lectures	Theory exam





2	2	Introducti	Introducti	Theory	Theory exam
		on	on	lectures	
3	2	Numberin	Numberin	Theory	Theory exam
		g Systems	g	lectures	
4	2	Numberin	Numberin	Theory	Theory exam
		g Systems	g	lectures	
5	2	Anatomic	Landmark	Theory	Theory exam
		al	S	lectures	
		Landmark			
		S			
6	2	Anatomic	Landmark	Theory	Theory exam
		al	S	lectures	
		Landmark			
		S			
7	2	Permanent	Incisors	Theory	Theory exam
		Maxillary		lectures	
		Central			
		Incisor			
8	2	Permanent	Incisors	Theory	Theory exam
		Maxillary		lectures	
		Central			
		Incisor			
9	2	Permanent	Incisors	Theory	Theory exam
		Maxillary		lectures	
		Lateral			
		Incisor			
10	2	Permanent	Incisors	Theory	Theory exam
		Maxillary		lectures	
		Lateral			
		Incisor			
11	2	Permanent	Incisors	Theory	Theory exam
		Mandibula		lectures	
		r Incisors			
12	2	Permanent	Incisors	Theory	Theory exam
		Mandibula		lectures	
		r Incisors			
13	2	Permanent	Incisors	Theory	Theory exam
		Mandibula		lectures	
		r Incisors			





1.4		D :	.	TT1	TI
14	2	Permanent Canines	Canines	Theory lectures	Theory exam
1.5	2		G		The
15	2	Permanent	Canines	Theory	Theory exam
	_	Canines		lectures	
16	2	Permanent	Premolars	Theory	Theory exam
		Maxillary		lectures	
		Premolars			
17	2	Permanent	Premolars	Theory	Theory exam
		Maxillary		lectures	
		Premolars			
18	2	Permanent	Premolars	Theory	Theory exam
		Mandibula		lectures	
		r First			
		Premolars			
19	2	Permanent	Premolars	Theory	Theory exam
		Mandibula		lectures	
		r First			
		Premolars			
20	2	Permanent	Premolars	Theory	Theory exam
		Mandibula		lectures	
		r Second			
		Premolar			
21	2	Permanent	Molars	Theory	Theory exam
		Maxillary		lectures	
		First			
		Molar,			
		Permanent			
		maxillary			
		second			
		and third			
		molars			
22	2	Permanent	Molars	Theory	Theory exam
		Maxillary		lectures	
		First			
		Molar,			
		Permanent			
		maxillary			
		second			
		and third			
		molars			
		11101013			





23	2	Permanent Mandibula	Molars	Theory lectures	Theory exam
		r First		icciures	
		Molar			
24	2	Permanent	Molars	Theory	Theory exam
	_	Mandibula		lectures	
		r Second			
		and third			
		Molars			
25	2	Tooth	Developm	Theory	Theory exam
		Developm	ent	lectures	
		ent			
26	2	Tooth	Developm	Theory	Theory exam
		Developm	ent	lectures	
		ent			
27	2	Pulp	Pulp	Theory	Theory exam
		Cavities		lectures	
28	2	Pulp	Pulp	Theory	Theory exam
		Cavities		lectures	
29	2	Occlusion	Occlusion	Theory	Theory exam
		and		lectures	
		physiologi			
		c form of			
		teeth and			
		periodonti			
	_	um			
30	2	Occlusion	Occlusion	Theory	Theory exam
		and		lectures	
		physiologi			
		c form of			
		teeth and			
		periodonti			
D 1		um			
Practical p	part				

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Introduction to Dental Anatomy & Carving Instruments	Practical work	Practical exam





2	2	Numbering systems	Practical work	Practical exam
3	2	Practical demonstration of Carving a Cube (1cm*1cm)	Practical work	Practical exam
4	2	Introduction to Anatomical landmarks on Teeth models. Carving of a cube.	Practical work	Practical exam
5	2	Description and Carving of the Labial Aspect of Permanent Maxillary Right Central Incisor.	Practical work	Practical exam
6	2	Description and Carving of the Mesial aspect of Permanent Maxillary Right Central Incisor.	Practical work	Practical exam
7	2	Description, Carving and Finishing of the Incisal Aspect of Permanent Maxillary Right Central Incisor.	Practical work	Practical exam
8	2	Practical Training of Carving of Permanent Maxillary Right Central Incisor	Practical work	Practical exam
9	2	Practical Exam of Carving of Permanent Maxillary Right Central Incisor	Practical work	Practical exam
10	2	Description & Carving of the Labial & Mesial Aspects of Permanent Maxillary Right Canine.	Practical work	Practical exam





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11	2	Description, Carving and Finishing of the Incisal Aspect of Permanent Maxillary Right Canine.	Practical work	Practical exam
12	2	Practical Training of Carving of Permanent Maxillary Right Canine.	Practical work	Practical exam
13	2	Practical Exam of Carving of Permanent Maxillary Right Canine.	Practical work	Practical exam
14	2	Mid-Year Practical Examination of Tooth Carving.	Practical work	Practical exam
15	2	Description & Carving of the Buccal and Mesial Aspects of Permanent Maxillary Right 1st Premolar.	Practical work	Practical exam
16	2	Description, Carving & Finishing of the Occlusal Aspect of Permanent Maxillary Right 1st Premolar.	Practical work	Practical exam
17	2	Practical Training of Carving of Permanent Maxillary Right 1 st Premolar	Practical work	Practical exam
18	2	Practical Exam of Carving of Permanent Maxillary Right 1 st Premolar	Practical work	Practical exam
19	2	Description and Carving of the Buccal & Mesial Aspects of Permanent Mandibular Right 1st Premolar.	Practical work	Practical exam





برزدله:				
20	2	Description, Carving and Finishing of the Occlusal Aspect of Permanent Mandibular Right 1st Premolar.	Practical work	Practical exam
21	2	Practical Training of Carving of Permanent Mandibular Right 1st Premolar	Practical work	Practical exam
22	2	Practical Exam of Carving of Permanent Mandibular Right 1 st Premolar	Practical work	Practical exam
23	2	Description and Carving of the Buccal & Mesial Aspects of Permanent Maxillary 1st Molar	Practical work	Practical exam
24	2	Description, Carving & Finishing of the Occlusal Aspect of Permanent Maxillary 1st Molar	Practical work	Practical exam
25	2	Practical Training of Carving of Permanent Maxillary 1 st Molar	Practical work	Practical exam
26	2	Practical Exam. of Carving of Permanent Maxillary Right 1 st molar.	Practical work	Practical exam
27	2	Description and Carving of the Buccal & Mesial Aspects of Permanent Mandibular Right 1 st molar.	Practical work	Practical exam
28	2	Description, Carving and Finishing of the Occlusal aspect of Permanent Mandibular Right 1st molar /Practical Training of Carving Permanent Mandibular Right 1st molar	Practical work	Practical exam





29	2	Practical Examination of Carving of Permanent Mandibular Right 1 st molar	Practical work	Practical exam
30	2	Final Oral & Practical Examination of Tooth carving		Practical exam

	<u> </u>
12.Learning and Teaching Reso	ources
Required textbooks (curricular	
books, if any)	
Main references (sources)	
Recommended books and	
references (scientific journals,	
reports)	
Electronic References,	
Websites	





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1. Course Name:				
	Human Rights and Democracy			
2. Course Code:				
	106 HRD			
3. Semester / Yea	ır:			
	First year			
4. Description Pro	eparation Date:			
	01 March 2024			
5. Available Atte	ndance Forms:			
	Theoretical and practical			
6. Number of Cre	edit Hours (Total) / Number of Units (Total)			
Theoretical: 30 hours	. Total units: 2			
7. Course admini	strator's name (mention all, if more than one name)			
Name: Assista	nt Professor Dr Mohammed Salih			
	mmedsalih@uomosul.edu.iq			
8. Course Objecti				
Course Objectives	- Introduction to principles of Human rights.			
	- Study of modern democracy.			
	- Introduction to Ba'ath crimes.			
9. Teaching and I	Learning Strategies			
Strategy	- Theory lectures.			
	 Educational videos and utilization of smart boards. 			
	 Focused student group discussion. 			
rocused student group discussion.				





	10. Course Structure							
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method			
1	1	Introduction Chapter One: Human Rights Human rights in ancient civilizations, human rights in Greek and Egyptian civilizations, human rights in ancient civilizations	Human Rights	Theory lectures	Theory exam			
2	1	Chapter Two: Human rights in divine laws and religions Human rights in the Christian and Jewish religions, human rights in Islam	Human Rights	Theory	Theory exam			
3	1	Chapter Three: Sources of human rights International sources. The Universal Declaration of Human Rights	Sources of human rights	Theory lectures	Theory exam			
4	1	The two international covenants on human rights	Sources of human rights	Theory lectures	Theory exam			
5	1	National sources The first demand: The French Declaration of the Rights of Man and the Citizen (August 26, 1789)	Sources of human rights	Theory lectures	Theory exam			
6	1	The French constitutions and declarations that followed the Declaration of Rights of 1789	Sources of human rights	Theory lectures	Theory exam			
7	1	The Constitution of the Republic of Iraq of 2005	Sources of human rights	Theory lectures	Theory exam			





8	1	Chapter Four: Human Rights	Sources	Theory	Theory
		Guarantees	of human	lectures	exam
		Human rights guarantees at	rights		
		the internal level,			
		constitutional guarantees			
9	1	Judicial guarantees	Sources	Theory	Theory
			of human	lectures	exam
			rights		
10	1	Human rights guarantees in	Sources	Theory	Theory
		Islam, Approval of the	of human	lectures	exam
		principle of dual	rights		
		responsibility in Islamic			
		society, the religious			
		character of Islamic law.			
11	1	Some Islamic systems are for	Sources	Theory	Theory
		the benefit of the individual,	of human	lectures	exam
		the group, and the ruling	rights		
		authorities			
12	1	Human rights guarantees at	Sources	Theory	Theory
		the international level	of human	lectures	exam
		The Charter of the United	rights		
		Nations			
		United Nations General			
		Assembly			
13	1	The Economic and Social	Sources	Theory	Theory
		Council	of human	lectures	exam
		Human Rights Council	rights		
14	1	The role of regional		Theory	Theory
		organizations in protecting		lectures	exam
		human rights, the European			
		Convention on Human Rights			





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15	1	The American Convention on	Sources	Theory	Theory
		Human Rights	of human	lectures	exam
		The African Charter on	rights		
		Human and Peoples' Rights			
		The Arab Charter on Human			
		Rights			
		Chapter Five: The future of			
		human rights			
		Technological progress and			
		its impact on rights and			
		freedoms, human rights and			
		public freedoms			
16	1	Political parties and human	The	Theory	Theory
		rights	future of	lectures	exam
		The role of media and	human		
		education	rights		
		Globalization and human			
		rights			
		Privacy and human rights			
		Hegemony and human rights			
17	1	Chapter One: The concept of	Democra	Theory	Theory
		democracy, its development,	cy	lectures	exam
		definition and dimensions			
18	1	The roots of the concept of	Democra	Theory	Theory
		democracy and its	cy	lectures	exam
		development			
19	1	Definition of democracy	Democra	Theory	Theory
			cy	lectures	exam
20	1	Democracy between	Forms of	Theory	Theory
		universality and specificity.	Democra	lectures	exam
			cy		
21	1	Chapter Two: Forms of	Forms of	Theory	Theory
		Democracy, Direct	Democra	lectures	exam
		Democracy, Content of Direct	cy		
		Democracy			
		Applications of Direct			
		Democracy, Appreciation of			
		the System of Direct			
		Democracy			





22	1	The semi-direct democracy,	Forms of	Theory	Theory
		the concept of semi-direct	Democra	lectures	exam
		democracy, aspects of semi-	cy		
		direct democracy			
23	1	Appreciating the system of	Forms of	Theory	Theory
		semi-direct democracy,	Democra	lectures	exam
		representative democracy	cy		
24	1	The concept of the	The	Theory	Theory
		representative system and its	represent	lectures	exam
		legal nature	ative		
		The pillars of the	system		
		representative system			
25	1	The problem of the	The	Theory	Theory
		representative parliamentary	represent	lectures	exam
		system	ative		
			system		
26	1	The Parliament	The	Theory	Theory
		The one-house parliament	Parliame	lectures	exam
		system and the two-chamber	nt		
		system. The internal			
		organization of the House of			
		Representatives			
27	1	Chapter Three: The	Elections	Theory	Theory
		mechanism of the		lectures	exam
		representative system			
		Elections			
		The concept of election and			
		its legal adaptation			
		The concept of election			
		The legal adaptation of the			
		election, the electorate, the			
		concept of the electorate. The			
		composition of the electorate			
28	1	Candidates for election,	Elections	Theory	Theory
		organizing the election		lectures	exam
		process, defining electoral			
		districts, electoral districts,			
		candidates.			





20	1	T1141	T14!	T1	T1
29	1	The electoral campaign,	Elections	Theory	Theory
		voting		lectures	exam
		Organizing elections,			
		individual election and			
		election on the American list			
		(ASEAN)			
30	1	The majority system and the	Elections	Theory	Theory
		proportional representation		lectures	exam
		system			
		The system of representation			
		of interests			
		The voting system of choice			
		and compulsory voting			
		The system of secret voting			
		and public voting			
11.0	г 1 /		•		•

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

12.Learning and Teaching Resources Required textbooks (curricular books, if any) Main references (sources) Recommended books and references (scientific journals, reports...) Electronic References, Websites





				•		
1. Cou	1. Course Name:					
	English Language and Dental Terminology					
2. Cou	rse Code:					
			107	HRD		
3. Sen	nester / Yea	r:				
			First	year		
4. Des	cription Pre	eparation D	ate:			
			01 Marc	h 2024		
5. Ava	ilable Atter	ndance For	ns:			
		T	heoretical a	nd practica	1	
		dit Hours (nber of Un	its (Total)	
		. Total units				
					e than one name)	
		nt Lecturer	· ·			
		12018@uon	nosul.edu.ic	l		
	ırse Objecti	ı				
Course O	bjectives	_	English grai			
		- Study of medical and dental terminology.			•	
		- Enhanc	ement of v	erbal and w	ritten language.	
9. Tea	ching and I	Learning Str	ategies			
Strategy		- The	ory lectures	S.		
		– Edu	cational vio	deos and uti	lization of smart boards.	
		- Foc	used studer	nt group dis	cussion.	
10 Cours	se Structure					
Week	Hr	Required	Unit or	Learning	Evaluation method	
V COA	111	Learning	subject	method	Draidadon method	
		Outcomes	name			
1	1	Prefixes &	Prefixes	Theory	Theory exam	
		suffixes		lectures		





2	1	Integumen	Integumen	Theory	Theory exam
	_	tary	tary	lectures	The state of the s
		system	system	rectares	
3	1	Muscular	Muscular	Theory	Theory exam
	1	system	system	lectures	Theory exam
4	1	Respirator	Respirator	Theory	Theory exam
	1	y system	y system	lectures	Theory exam
5	1	Digestive	Digestive	Theory	Theory exam
3	1	system	system	lectures	Theory exam
6	1	Nervous	Nervous	Theory	Theory exam
	1			lectures	Theory exam
7	1	system Cardiovas	system Cardiovas		Theory even
/	1	cular		Theory	Theory exam
			cular	lectures	
0	1	system	system	Tri	771
8	1	Blood and	Immune	Theory	Theory exam
	1	Lymph	system	lectures	TOTAL CONTRACTOR OF THE PARTY O
9	1	Immune	Five sense	Theory	Theory exam
		system		lectures	
		Endocrine			
		system			
10	1	Five sense	genitourin	Theory	Theory exam
			ary system	lectures	
11	1	genitourin	Dental	Theory	Theory exam
		ary system	terminolo	lectures	
			gy		
12	1	Dental	Dental	Theory	Theory exam
		terminolo	terminolo	lectures	
		gy part 1	gy		
13	1	Dental	Dental	Theory	Theory exam
		terminolo	terminolo	lectures	
		gy part 2	gy		
14	1	Dental	Small	Theory	Theory exam
		terminolo	Talks	lectures	
		gy part 3			
15	1	Small	Common	Theory	Theory exam
		Talks	Mistakes	lectures	





16	1	Common	Passive	Theory	Theory exam
10	1	Mistakes	voice	lectures	Theory exam
		Wiistakes	VOICE	lectures	
1.7		ъ .	D: 1	(TD)	TO I
17	1	Passive	Direct and	Theory	Theory exam
		voice	indirect	lectures	
			speech		
18	1	Direct and	Synonyms	Theory	Theory exam
		indirect		lectures	
		speech			
19	1	Synonyms	Adjectives	Theory	Theory exam
		in English		lectures	
20	1	Adjectives	quotation	Theory	Theory exam
		_	_	lectures	
21	1	Integratin	Prepositio	Theory	Theory exam
		g a	ns	lectures	
		quotation			
		into an			
		essay			
22	1	Prepositio	Grammar	Theory	Theory exam
	_	ns in	0101111101	lectures	
		English		10000100	
23	1	Grammar	Idioms	Theory	Theory exam
	_	with		lectures	
		Examples		10000105	
24	1	Idioms		Theory	Theory exam
	-	and		lectures	Theory exam
		Phrases		rectares	
25	1	Writing	Writing	Theory	Theory exam
23	1	assignmen		lectures	Theory exam
		t	t	icciaics	
26	1	l l	Pronunciat	Theory	Theory exam
20	1	Pronunciat	ion	lectures	THOOLY CAME
		ion rules	1011	icciuies	
27	1			The	The envious
27	1	Tenses		Theory	Theory exam
20	1	C	C	lectures	771
28	1	Synonyms	Synonyms	Theory	Theory exam
		and		lectures	
		Antonyms			





29	1	Paraphrasi	Paraphrasi	Theory	Theory exam
		ng	ng	lectures	
30	1	Essay	writing	Theory	Theory exam
		writing	skills	lectures	
		skills			

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ources





•								
1. Cou	1. Course Name:							
Human Anatomy								
2. Cou	irse Code:							
		108 H	UMA					
3. Sem	nester / Yea	r:						
		First	year					
4. Des	cription Pre	eparation Date:						
		01 Marc	h 2024					
5. Ava	ilable Atter	ndance Forms:						
		Theoretical a						
		dit Hours (Total) / Nur	<u> </u>	Γotal)				
		, practical: 60 hours. To						
		strator's name (mention	all, if more that	in one nan	ne)			
		r Saif Aldeen Abbas						
		mmas@uomosul.edu.iq						
	rse Objecti		man anatamy					
Course O	bjectives	Introduction to hurHead and neck ana	-	atomy				
		Head and neck anatomy, chest anatomy.Practical study and hands-on anatomy.						
			- Harras on anac					
9. Tea	ching and I	Learning Strategies						
Strategy		 Theory lectures 	and practical 1	aboratorie	S.			
		 Educational vid 	leos and utilizat	tion of sma	art boards.			
		 Use of education 	onal models.					
		 Focused studen 	t group discuss	ion.				
10 0	~							
	se Structure		TT	т	F14*			
Week	Hr	Required Learning Outcomes	Unit or subject name	Learnin	Evaluation method			
		Outcomes	Subject name	g method	memou			
1	2	Introduction to anatomy	Introduction	Theory	Theory exam			
				lectures				





2	2	Skin, Fasciae, Muscle,	Basic	Theory	Theory exam
		Joints, Ligament,	Structures	lectures	
		Bursae			
3	2	Bone, Cartilage, Blood	Basic	Theory	Theory exam
		Vessels, Lymphatic	Structures	lectures	-
		System and			
		classification of human			
		skeleton			
4	2	Nervous System,	Basic	Theory	Theory exam
		Mucous Membranes,	Structures	lectures	
		Serous Membranes			
5	2	Frontal Bone, Parietal	Skull	Theory	Theory exam
		bones		lectures	
6	2	Occipital bone	Skull	Theory	Theory exam
				lectures	
7	2	Temporal bones	Skull	Theory	Theory exam
				lectures	
8	2	Sphenoid bone	Cranial Cavity	Theory	Theory exam
				lectures	
9	2	Ethmoid bone	Orbital and	Theory	Theory exam
			nasal regions	lectures	
10	2	Zygomatic bones,	Orbital and	Theory	Theory exam
		Maxillae	nasal regions	lectures	
11	2	Nasal bones, Lacrimal	Orbital and	Theory	Theory exam
		bones, Vomer, Palatine	nasal regions	lectures	
		bones, Inferior conchae			
12	2	Mandible	Mandible	Theory	Theory exam
				lectures	
13	2	External Views of the	Skull	Theory	Theory exam
		Skull		lectures	
14	2	Cranial cavity	Cranial cavity	Theory	Theory exam
				lectures	
15	2	Major Foramina and	Cranial cavity	Theory	Theory exam
		Fissures locations and		lectures	
		structures pass through			
		the skull			
16	2	Orbit	Orbit	Theory	Theory exam
				lectures	





17	2	nasal cavity	Nasal cavity	Theory	Theory exam			
				lectures				
18	2	Auditory ossicles,	Auditory	Theory	Theory exam			
		Hyoid bone	ossicles	lectures				
19	2	General Characteristics	Spine	Theory	Theory exam			
		of a Vertebra		lectures				
20	2	Vertebral column	Spine	Theory	Theory exam			
				lectures				
21	2	Structure of the	Thoracic cavity	Theory	Theory exam			
		Thoracic cage		lectures				
		(Sternum, Ribs, Costal						
22	2	Cartilages) Mediastinum, Pleurae,	Thoracic	Theory	Theory exam			
22	2	Trachea, Bronchi	cavity	lectures	Theory exam			
23	2	Lung	Thoracic cavity	Theory	Theory exam			
23	2	Lung	Thoracic cavity	lectures	Theory exam			
24	2	Anatomy of heart	Thoracic	Theory	Theory exam			
24	2	Anatomy of heart	cavity	lectures	Theory exam			
25	2	Major arteries, veins	Thoracic cavity	Theory	Theory exam			
2.5	2	and nerves of thorax	Thoracic cavity	lectures	Theory exam			
26	2	Bones of the Shoulder	Upper	Theory	Theory exam			
20	2	(Pectoral girdle) girdles	extremities	lectures	Theory exam			
27	2	Bones of the Upper	Upper	Theory	Theory exam			
		extremities	extremities	lectures	Theory enam			
28	2	Bones of the Pelvic	Pelvic	Theory	Theory exam			
		girdle		lectures	,			
29	2	Bones of the Lower	Lower	Theory	Theory exam			
		extremities	extremities	lectures				
30	2	Abdominal cavity and	Abdomine	Theory	Theory exam			
		organs		lectures				
Practical part								
Week	Hr	Laboratory subject		Learnin	Evaluation			
				g	method			
				method				
1	2	Introduction to anatomy		Practical	Practical			
				work	exam			
2 2		Basic structures part 1 (Skin, Fasciae,		Practical	Practical			
		Muscle, Joints, Ligament	, Bursae)	work	exam			





3	2	Basic structures part 2 (bone, Cartilage,	Practical	Practical
		Blood Vessels, Lymphatic System) and	work	exam
4		classification of human skeleton	D 1 1	D : 1
4	2	Basic structures part 3 (Nervous System,	Practical	Practical
		Mucous Membranes, Serous Membranes)	work	exam
5	2	Frontal Bone, Parietal bones	Practical	Practical
			work	exam
6	2	Occipital bone	Practical	Practical
			work	exam
7	2	Temporal bones	Practical	Practical
			work	exam
8	2	Sphenoid bone	Practical	Practical
			work	exam
9	2	Ethmoid bone	Practical	Practical
			work	exam
10	2	Zygomatic bones, Maxillae	Practical	Practical
			work	exam
11	2	Nasal bones, Lacrimal bones, Vomer,	Practical	Practical
	_	Palatine bones, Inferior conchae	work	exam
		· ·	,,, 0111	
12	2	Mandible	Practical	Practical
			work	exam
13	2	External Views of the Skull	Practical	Practical
			work	exam
14	2	Cranial cavity	Practical	Practical
			work	exam
15	2	Major Foramina and Fissures locations	Practical	Practical
		and structures pass through the skull	work	exam
16	2	Orbit	Practical	Practical
			work	exam
17	2	Nasal cavity	Practical	Practical
		-	work	exam
18	2	Auditory ossicles, Hyoid bone	Practical	Practical
			work	exam
19	2	General Characteristics of a Vertebra	Practical	Practical
	_		work	exam
20	2	Vertebral column	Practical	Practical
20	_	· • · · · · · · · · · · · · · · · · · ·	work	exam
21	2	Structure of the Thoracic cage (Sternum,	Practical	Practical
21	2	Ribs, Costal Cartilages)	work	exam
		11100, 000001 0010110500)	WOIK	CAGIII





		•		
22	2	Thoracic cavity (Mediastinum, Pleurae,	Practical	Practical
		Trachea, Bronchi)	work	exam
23	2	Lung	Practical	Practical
			work	exam
24	2	Anatomy of heart	Practical	Practical
			work	exam
25	2	Major arteries, veins and nerves of thorax	Practical	Practical
			work	exam
26	2	Bones of the Shoulder (Pectoral girdle)	Practical	Practical
		girdles	work	exam
27	2	Bones of the Upper extremities	Practical	Practical
			work	exam
28	2	Bones of the Pelvic girdle	Practical	Practical
			work	exam
29	2	Bones of the Lower extremities	Practical	Practical
			work	exam
30	2	Abdominal cavity and organs	Practical	Practical
			work	exam
11.0	T 1 4'			

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

12.Learning and Teaching Resources Required textbooks (curricular books, if any) Main references (sources) Recommended books and references (scientific journals, reports...) Electronic References, Websites









10. Cour	se Structure	:			
Week	Hr	Required	Unit or subject name	Learning	Evaluatio
		Learning		method	n method
		Outcomes			
1	1	Al-Motanabi	Literature	Theory	Theory
		(biography,		lectures	exam
		poetry, and			
		analysis)			
2	1	Bader Shaker	Literature	Theory	Theory
		Al-Sayab		lectures	exam
		(biography,			
		poetry, and			
		analysis)			
3	1	Nazek Al-	Literature	Theory	Theory
		Malaeka		lectures	exam
		(biography,			
		poetry, and			
		analysis)			
4	1	Al-Jawaheri	Literature	Theory	Theory
		(biography,		lectures	exam
		poetry, and			
_		analysis)	N		
5	1	Nominal	Nominal sentence	Theory	Theory
		sentence	** 1 1	lectures	exam
6	1	Verbal sentence	Verbal sentence	Theory	Theory
_				lectures	exam
7	1	The subject	The subject	Theory	Theory
0	1	TD1 11 1	TDI 1'	lectures	exam
8	1	The predict	The predict	Theory	Theory
	4			lectures	exam
9	1	Annular	Annular	Theory	Theory
10			N 1	lectures	exam
10	1	Main markers in	Name and present verb	Theory	Theory
		name and		lectures	exam
4.4	4	present verb	N	TT1	TO I
11	1	Minor markers	Name and present verb	Theory	Theory
		in name and		lectures	exam
		present verb			





12	1	Accusative case	Accusative case	Theory	Theory
		markers		lectures	exam
13	1	Prepositions	Prepositions	Theory	Theory
		markers	1	lectures	exam
14	1	Jussive case	Jussive case	Theory	Theory
		markers		lectures	exam
15	1	Derivations	Derivations	Theory	Theory
				lectures	exam
16	1	Subject's name	Subject's name	Theory	Theory
				lectures	exam
17	1	Hyperbole forms	Hyperbole forms	Theory	Theory
				lectures	exam
18	1	Verb's name	Verb's name	Theory	Theory
				lectures	exam
19	1	Abstract verbs	Abstract verbs	Theory	Theory
				lectures	exam
20	1	Masculine,	Masculine and	Theory	Theory
		feminine, and	feminine	lectures	exam
		feminine			
		markers			
21	1	Missing name	Missing name	Theory	Theory
				lectures	exam
22	1	Plural form of	Missing name	Theory	Theory
		missing nouns		lectures	exam
23	1	Shortened name	Shortened name	Theory	Theory
				lectures	exam
24	1	Plural form of	Shortened name	Theory	Theory
		shortened name		lectures	exam
25	1	Elongated name	Elongated name	Theory	Theory
	_			lectures	exam
26	1	Plural form of	Elongated name	Theory	Theory
2=		elongated name	x 1 1 1	lectures	exam
27	1	Irregular plural	Irregular plural	Theory	Theory
20	4	forms	D 1 1 .11	lectures	exam
28	1	Deletion and	Deletion and addition	Theory	Theory
		addition, letters		lectures	exam
		to be deleted,			
		letters to be			
		added			





29	1	The short alif	Letters forms	Theory	Theory
		and the extended		lectures	exam
		alif, the bound			
		ta' and the open			
		ta', the two			
		forms of dhaad			
30	1	The hamza	Punctuation marks	Theory	Theory
		Punctuation		lectures	exam
		marks			

12.Learning and Teaching Resources	3
Required textbooks (curricular	
books, if any)	
Main references (sources)	
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	





Course Description – Second year Course Description Form

1. Course Name:	
	Human Anatomy
2. Course Code:	
	201 HUMA
3. Semester / Yea	ır:
	Second year
4. Description Pro	eparation Date:
	01 March 2024
5. Available Atte	
	Theoretical and practical
	edit Hours (Total) / Number of Units (Total)
	, practical: 60 hours. Total units: 4
	strator's name (mention all, if more than one name)
_	d Abdulrahman Alsaraj Email: ayadrehman@uomosul.edu.iq
Lecturer Saif Aldeen	Abbas Email: <u>saifaljammas@uomosul.edu.iq</u>
8. Course Objecti	ives
Course Objectives	- Introduction to human anatomy.
	- Head and neck anatomy, chest anatomy.
	- Practical study and hands-on anatomy.
9. Teaching and I	Learning Strategies
Strategy	- Theory lectures and practical laboratories.
	 Educational videos and utilization of smart boards.
	 Use of educational models.
	 Focused student group discussion.
	1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1





10. Cours	se Structure	,			
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluatio n method
1	1	Layers of the scalp, Muscles of the scalp, Sensory Nerve Supply of the Scalp, Arterial Supply of the Scalp	Scalp	Theory lectures	Theory exam
2	1	Venous Drainage of the Scalp, Lymph Drainage of the Scalp, Clinical Notes	Scalp	Theory lectures	Theory exam
3	1	Eyelids, Movements of the Eyelids, Lacrimal Apparatus, Openings into the Orbital Cavity, Nerves of the Orbit	Orbital region	Theory lectures	Theory exam
4	1	Blood and Lymph Vessels of the Orbit, Structure of the Eye, Clinical Notes	Orbital region	Theory lectures	Theory exam
5	1	The Nose, External Nose, Nerve Supply of the External Nose, Blood Supply and Venous Drainage of the External Nose, Nasal Cavity, Nerve Supply of the Nasal Cavity, Blood Supply to the Nasal Cavity, Venous Drainage of the Nasal Cavity, Lymph Drainage of the Nasal Cavity, The Paranasal Sinuses, Drainage of Mucus and Functions of Paranasal Sinuses, Clinical Notes.	The Nasal region	Theory lectures	Theory exam
6	1	Introduction, Branches of the Mandibular Nerve, Otic Ganglion, Clinical Notes	Mandibula r nerve	Theory lectures	Theory exam
7	1	Skin of the Face, Muscles of the Face (Muscles of Facial Expression), Sensory Nerves of the Face.	The Face	Theory lectures	Theory exam
8	1	Arterial Supply of the Face, venous drainage of the Face, venous drainage of the Face,	The Face	Theory lectures	Theory exam





		Lymphatic drainage of the face, Facial nerve			
9	1	The Lips, The oral Cavity	Oral cavity	Theory	Theory
		vestibule and Proper, Sensory innervation of the Mouth		lectures	exam
		Hard Palate & Soft palate			
10	1	Muscles of the Soft Palate,	Oral cavity	Theory	Theory
		Palatoglossal Arch &		lectures	exam
		Palatopharyngeal Arch			
11	1	Muscles of the Tongue,	The	Theory	Theory
		Movements of the Tongue	Tongue	lectures	exam
12	1	The temporal fossa anatomy,	Temporal	Theory	Theory
		The infratemporal fossa,	region	lectures	exam
		Communications, Muscles of			
12	1	mastication	D 4:1	771	TEI
13	1	Parotid Region (Boundaries),	Parotid	Theory	Theory
		Parotid Gland, Parotid Duct, Innervation of Parotid Gland	gland	lectures	exam
		and Related Structures			
14	1	Arterial Supply, Venous	Parotid	Theory	Theory
	1	Drainage, Lymph Drainage,	gland	lectures	exam
		The Buccal Pad of Fat,	grana	10000105	
		Clinical Notes			
15	1	Boundaries, Communications	The	Theory	Theory
		and openings, Maxillary	Pterygopal	lectures	exam
		nerve, Branches from the	atine fossa		
		pterygopalatine ganglion, The			
		pterygopalatine ganglion, The			
		veins of the pterygopalatine			
16	1	fossa	Tomporo	Theory	Theory
10	1	Introduction, The Articular Disk, Retro-discal Tissue,	Temporo mandibula	lectures	exam
		Capsule, Synovial Membrane,	r joint	lectures	exam
		Ligaments, Nerve Supply,	1 Joint		
		Vascular Supply			
17	1	Movements, Important	Temporo	Theory	Theory
		Relations of the	mandibula	lectures	exam
		Temporomandibular Joint,	r joint		
		Clinical Notes			
18	1	Overview, Skin of the Neck,	The neck	Theory	Theory
		Fasciae of the Neck,		lectures	exam





303)3					
		Superficial Cervical Fascia, Deep Cervical Fascia, Cervical Ligaments			
19	1	Muscles of the Neck, Cervical Plexus, Bones of Neck, Blood Supply, Key Neck Muscles	The neck	Theory lectures	Theory exam
20	1	Anterior triangle, Submental triangle, Submandibular triangle	Triangles of the neck	Theory lectures	Theory exam
21	1	Carotid triangle, Muscular triangle, Posterior triangle, Thyroid gland, Blood supply & venous drainage, Nerve supply	Triangles of the neck	Theory lectures	Theory exam
22	1	Muscles of the submandibular region, The submandibular gland, Sublingual gland	Submandi bular region	Theory lectures	Theory exam
23	1	Muscles of the Root of the Neck, The Thoracic Duct, Main Nerves of the Neck	Root of the neck	Theory lectures	Theory exam
24	1	Cervical Plexus & Brachial Plexus, Lymph Drainage of the Head and Neck, Veins of the Head and Neck	Root of the neck	Theory lectures	Theory exam
25	1	Common Carotid Artery, Carotid Sinus, Carotid Body, External Carotid Artery	Arteries of the neck	Theory lectures	Theory exam
26	1	Internal Carotid Artery, Subclavian Arteries (3 parts), Circle of Willis	Arteries of the neck	Theory lectures	Theory exam
27	1	Nervous System, Gross Anatomy of the Brain, Parts of the Brain, Ventricular System of the Brain, The Venous Blood Sinuses (Dural Sinuses), Blood Supply of the Brain, Cranial Meninges, Dural Nerve Supply, Dural Arterial Supply Dural Venous Drainage Clinical Focus	Brain	Theory lectures	Theory exam
28	1	Introduction, Functional Components, Summary of cranial nerves	Cranial nerves	Theory lectures	Theory exam





29	1	Muscles of the Pharynx,	Pharynx	Theory	Theory
		Pharynx divisions, Palatine		lectures	exam
		Tonsils, Waldeyer's Ring of			
		Lymphoid Tissue			
30	1	Cartilages of the Larynx,	Larynx	Theory	Theory
		Membranes and Ligaments of		lectures	exam
		the Larynx, Inlet of the			
		Larynx, Laryngeal Folds,			
		Muscles of the Larynx, Nerve			
		& blood Supply of the			
		Larynx			

Practical part

Week	Hr	Laboratory subject	Learning	Evaluation method
			method	
1	2	Study Unit Title	Practical	Practical exam
			work	
2	2	Anatomy of scalp	Practical	Practical exam
			work	
3	2	Anatomy of face part 1	Practical	Practical exam
			work	
4	2	Anatomy of face part 2	Practical	Practical exam
			work	
5	2	Anatomy of parotid region	Practical	Practical exam
			work	
6	2	Temporal, infratemporal fossa	Practical	Practical exam
			work	
7	2	muscles of mastication	Practical	Practical exam
			work	
8	2	Mandibular nerve	Practical	Practical exam
			work	
9	2	Maxillary artery	Practical	Practical exam
			work	
10	2	Pterygopalatine fossa	Practical	Practical exam
			work	
11	2	Maxillary nerve	Practical	Practical exam
			work	
12	2	Nasal cavity and paranasal	Practical	Practical exam
		sinuses	work	
13	2	Tempromandibular joint	Practical	Practical exam
		(TMJ)	work	





14	2	Orbital region and Muscles of the eye	Practical work	Practical exam
15	2	Ophthalmic nerve, artery and vein 2	Practical work	Practical exam
16	2	anatomy of eyeball	Practical work	Practical exam
17	2	Anatomy of mouth(The Lips ,oral Cavity,Tongue)	Practical work	Practical exam
18	2	The Palate	Practical work	Practical exam
19	2	Superficial anatomy of neck	Practical work	Practical exam
20	2	Triangles of neck	Practical work	Practical exam
21	2	Arteries of head and neck (internal carotid artery)	Practical work	Practical exam
22	2	External carotid artery	Practical work	Practical exam
23	2	Subclavian artery	Practical work	Practical exam
24	2	Veins of the Head and Neck (internal jugular vein, subclavian vein, and venus sinuses)	Practical work	Practical exam
25	2	Anatomy of brain	Practical work	Practical exam
26	2	Submandibular region	Practical work	Practical exam
27	2	Anatomy of pharynx	Practical work	Practical exam
28	2	Lymph drainage of head and neck	Practical work	Practical exam
29	2	Anatomy of larynx	Practical work	Practical exam
30	2	Root of neck	Practical work	Practical exam





12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Bernard Liebgott. The anatomical
, v	basis of dentistry 4th edition.
	Mosby.
Main references (sources)	Snell RS. Clinical Anatomy by
,	Regions.
	h edition. Philadelphia, PA:
	Lippincott
	Williams & Wilkins. 2012
Recommended books and references (scientific	Head and neck anatomy
journals, reports)	Dr. Ayad AL-Saraj College of
journais, reports)	Dentistry- Mosul University
Electronic References, Websites	https://www.kenhub.com
	https://teachmeanatomy.info





1. Course Name	:					
	Biochemistry					
2. Course Code:	2. Course Code:					
	205 BICH					
3. Semester / Ye	ar:					
	Second year					
4. Description P	reparation Date:					
	01 March 2024					
5. Available Atte	endance Forms:					
	Theoretical and practical					
6. Number of Cr	redit Hours (Total) / Number of Units (Total)					
Theoretical: 60 hour	rs, practical: 60 hours. Total units: 6					
7. Course admin	istrator's name (mention all, if more than one name)					
Name: Assit Prof. D	r. Ahmed Shihab Altaweel Email: <u>altaweel@uomosul.edu.iq</u>					
Dr. Eman Sa						
8. Course Object						
Course Objectives	- Introduction to biochemistry.					
	- Knowledge about the organic materials and compounds.					
	- Study different systems in the body related to biochemistry.					
9. Teaching and	Learning Strategies					
Strategy	 Theory lectures and practical laboratories. 					
	 Educational videos and utilization of smart boards. 					
	- Use of educational models.					
 Focused student group discussion. 						
10 C. C.						
10. Course Structur	e					





Week	Hr	Required Learning	Unit or subject	Learni	Evaluati
		Outcomes	name	ng	on
				method	method
1	2	Enzymes: Definition	Enzymes	Theory	Theory
		,Terminology, and		lectures	exam
		Classification	-		- Total
2	2	Mechanism of enzyme action	Enzymes	Theory	Theory
				lectures	exam
3	2	Clinical significance of	Enzymes	Theory	Theory
		enzyme assays		lectures	exam
4	2	Vitamins, definition,	Vitamins	Theory	Theory
		classification		lectures	exam
5	2	Digestion and absorption	Digestion and	Theory	Theory
		of carbohydrates, lipids ,and proteins	absorption	lectures	exam
6	2	Chemistry of	Carbohydrates	Theory	Theory
		carbohydrates		lectures	exam
7	2	Metabolism of	Carbohydrates	Theory	Theory
		Carbohydrates - Part 1		lectures	exam
8	2	Metabolism of	Carbohydrates	Theory	Theory
		Carbohydrates - Part 2		lectures	exam
9	2	Carbohydrates	Carbohydrates	Theory	Theory
		metabolism regulation		lectures	exam
10	2	Chemistry of Proteins and	Proteins	Theory	Theory
		amino acids		lectures	exam
11	2	Metabolism of Proteins	Proteins	Theory	Theory
		and amino acids		lectures	exam
12	2	Metabolism of Protein and	Proteins	Theory	Theory
		amino acid regulation		lectures	exam
13	2	Metabolism of Protein and	Proteins	Theory	Theory
		amino acid inherited		lectures	exam
14	2	disorder	Evon	Theory	Theory
14	2	Exam	Exam	Theory lectures	Theory
15	2	Lipids, definition and	Linida		Theory
13		Lipids, definition and classification	Lipids	Theory lectures	Theory exam
16	2	Metabolism of Lipids	Lipids	Theory	Theory
10		Oxidation of Fatty Acids	Lipido	lectures	exam
17	2	Biosynthesis of Fatty	Lipids	Theory	Theory
1 /		Acids		lectures	exam
	1			10014105	V/10111





18	2	Integration of metabolism	Metabolism	Theory	Theory
		of carbohydrates, lipid ,and Proteins		lectures	exam
19	2	Metabolism of Purines and	Metabolism	Theory	Theory
		pyrimidines		lectures	exam
20	2	Metabolism of Purines	Metabolism	Theory	Theory
		and pyrimidines disorder		lectures	exam
21	2	Nucleic Acids Definition	Nucleic Acids	Theory	Theory
		and Protein synthesis		lectures	exam
22	2	Hormone definition,	Hormones	Theory	Theory
		classification		lectures	exam
23	2	Hormone disorder	Hormones	Theory	Theory
				lectures	exam
24	2	Acid-base balance	Acid-base	Theory	Theory
				lectures	exam
25	2	Trace elements disorder	Trace elements	Theory	Theory
				lectures	exam
26	2	Salivary secretion	Saliva	Theory	Theory
		(saliva), Pancreatic juice		lectures	exam
27	2	electrolytes	Electrolytes	Theory	Theory
20				lectures	exam
28	2	Liver Function Test	Liver Function	Theory	Theory
20		TI'I TO I TO I	77'1 P	lectures	exam
29	2	Kidney Function Test	Kidney Function	Theory	Theory
20	2		T.	lectures	exam
30	2	Exam	Exam	Theory	Theory
D (1)				lectures	exam
Practical 1		1	l	1	
Week	Hr	Laboratory subject	Learning method		on method
1	2	Lab safety	Practical work	Practical	
2	2	Sample collection - part 1	Practical work	Practical	
3	2	Sample collection – part 2	Practical work	Practical	
4	2	Spectrophotometer	Practical work	Practical exam	
5	2	Standard Curve	Practical work	Practical	
6	2	Blood glucose+ HbA1c	Practical work	Practical	
7	2	Total Protein	Practical work	Practical	
8	2	Albumin+ Globulin	Practical work	Practical	
9	2	Troponin	Practical work	Practical	
10	2	Liver function test (Bilirubin)	Practical work	Practical	exam





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11	2	Alkaline Phosphatase	Practical work	Practical exam
12	2	Transaminases (ALT &	Practical work	Practical exam
		AST)		
13	2	Lipid in blood	Practical work	Practical exam
		(cholesterol & lipoprotein)		
14	2	Triglyceride	Practical work	Practical exam
15	2	Kidney function Test	Practical work	Practical exam
		(urea)		
16	2	Serum creatinine &	Practical work	Practical exam
		creatinine clearness		
17	2	General Urine Analysis –	Practical work	Practical exam
		part 1		
18	2	General Urine Analysis –	Practical work	Practical exam
		part 2		
19	2	Uric acid	Practical work	Practical exam
20	2	Amylase in serum+ saliva	Practical work	Practical exam
21	2	Creatine phosphokinase	Practical work	Practical exam
22	2	lactate Dehydrogenase	Practical work	Practical exam
23	2	Serum calcium	Practical work	Practical exam
24	2	Serum phosphorus	Practical work	Practical exam
25	2	Serum Na	Practical work	Practical exam
26	2	Serum K	Practical work	Practical exam
27	2	Serum Iron	Practical work	Practical exam
28	2	Vitamin D	Practical work	Practical exam
29	2	Vitamin C	Practical work	Practical exam
30	2	Acid phosphatase	Practical work	Practical exam
11.0				

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

12.Learning and Teaching Resources

ε			
Required textbooks (curricular books, if any)	Harper's Illustrated Biochemistry, a		
	LANGE medical book		
Main references (sources)	Lippincott's Illustrated Reviews:		
	Biochemistry Fifth Edition		
Recommended books and references			
(scientific journals, reports)			
Electronic References, Websites			





1. Course N	Jame:				
	Medical Physiology				
2. Course C	Code:				
	204 MPHS				
3. Semester	· / Year:				
	Second year				
4. Descripti	ion Preparation Date:				
	01 March 2024				
5. Available	e Attendance Forms:				
	Theoretical and practical				
6. Number	of Credit Hours (Total) / Number of Units (Total)				
Theoretical: 60	hours, practical: 60 hours. Total units: 6				
7. Course a	dministrator's name (mention all, if more than one name)				
Name: Lect. Sa	ba Khairaldeen Altaie Email: saba_physiology4@uomosul.edu.iq				
Assit Prof Salw	van Waadallah Yousif Email: salwan@uomosul.edu.iq				
Lect Sinan Tha	noon Abdullah Email: sinantag2016@uomosul.edu.iq				
8. Course C	Objectives				
Course	- Introduction to medical physiology.				
Objectives	- Knowledge about the basics of the physiology of human body.				
	- Study different systems in the body and their functions.				
9. Teaching	g and Learning Strategies				
Strategy	Theory lectures and practical laboratories.				
	 Educational videos and utilization of smart boards. 				
	 Use of educational models. 				
	 Focused student group discussion. 				
1					





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10. C	ourse Str	ucture			
Week	Hr	Required Learning Outcomes	Unit or subject	Learni	Evaluatio
			name	ng	n method
				method	
1	2	Function organization of the	Introduction	Theory	Theory
		human body, Cell physiology,		lectures	exam
		Cell membrane, Cell components			
2	2	, Cell Junction)	D. I., C. 1	T1	TP1
2	2	Type of body fluids, Intracellular and extracellular,	Body fluid and	Theory	Theory
		Daily intake of water, Daily loss	Edema	lectures	exam
		of body water, Constituents of			
		extracellular and intracellular			
		fluids, Major factors contribute			
		to the movement of fluid,			
		Specialized Fluids of the Body.			
		Types of Edema, Causes of			
		edema, Measurement of body			
		fluid volume, Dehydration, Types			
		of dehydration, Classification, Causes, Signs and Symptoms of			
		Dehydrations.			
3	2	Diffusion (passive), Carrier-	Homeostasis and	Theory	Theory
		mediated transport (passive or	Transport across	lectures	exam
		active), Vesicular transport).	cell membrane		
4	2	Functions of Mouth, Salivary	Oral cavity and	Theory	Theory
		Glands Structure, Development,	salivary glands	lectures	exam
		Major glands, Minor glands,			
		Clinical correlations, Regulation of Salivary Secretion, Factors			
		Influencing Salivary Flow and			
		Composition. Mastication,			
		Deglutition, Bolus Formation for			
		Swallowing, Digestion. Speech:			
		Definition, Mechanism, Nervous			
		Control, Applied Physiology.			





5	2	Composition of Saliva, Saliva Components, Properties of Saliva, Functions of Saliva, Effect of Drugs and Chemicals on Salivary Secretion, Maintenance of Tooth Integrity, The Diagnostic Applications of Saliva and forensic uses of saliva, Disadvantages/Limitations of Saliva.	Salivary functions and Regulation of Salivary Secretion	Theory lectures	Theory exam
6	2	Composition of blood, Hematocrit, Plasma, Functions of blood, Red blood cells, Genesis of R.B.C, polycythemia, Anemia, Destruction of R.B.C.s.	Blood	Theory lectures	Theory exam
7	2	Types of W.B.C., Genesis of the leukocytes, Life span of the W.B.C, Phagocytosis, Inflammation, Leukemia's, Leukopenia.	White Blood Cells	Theory lectures	Theory exam
8	2	Formation of Hemoglobin, Iron Metabolism, Hb Compounds, Destruction of Hb, The common causes of jaundice.	Haemoglobin	Theory lectures	Theory exam
9	2	Agglutination, Agglutinins, The Rh Group, Formation of Anti-Rh, agglutinins, Erythroblastosis Fetalis, Effect of the Mother's Antibodies on the Fetus, Transfusion Reactions resulting from mismatched Blood Types, Nature of Antibodies.	Blood groups	Theory lectures	Theory exam
10	2	Vascular Spasm, Formation of a Platelet Plug, Mechanism of the Platelet Plug, Mechanism of Blood Coagulation, Prevention of Clotting in the Normal Vascular System, Prevention of Blood Coagulation outside the Body, Blood Disease.	Haemostasis and blood coagulation	Theory lectures	Theory exam





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11	2	Heart: Layers, Valves, Actions of heart, Blood Vessels, Division of circulation, Properties of Cardiac Muscle, Action Potential and Ionic Basis, Conductive system of Human Heart.	Cardiovascular system: Blood vessels	Theory	Theory exam
12	2	Cardiac Cycle, Heart Sounds, Cardiac Output, Heart Rate and Regulation, Arterial Blood Pressure and Regulation of ABP Venous Pressure and Capillary Pressure, Arterial Pulse and Venous Pulse, Regional Circulation.	Cardiovascular system: Blood pressure	Theory lectures	Theory exam
13	2	Electrocardiogram, Hemorrhage, Circulatory Shock and Heart Failure, Cardiovascular Adjustments during Exercise.	Cardiovasculars ystem	Theory lectures	Theory exam
14	2	Types of Respiration, Stages of Respiration, Respiratory tract, Non respiratory functions of respiratory tract, Mechanics of Pulmonary Ventilation, Types of Respiratory pressures, Factors causing and preventing collapsing tendency of lungs)	Respiratory system	Theory lectures	Theory exam
15	2	Compliance, Variation in Compliance, The resistance and the work of breathing, Dead space, Lung volume and Lung capacity, Ventilation, Respiratory Protective Reflexes.	Respiratory system	Theory lectures	Theory exam
16	2	Pulmonary function tests, Regulation of Respiration, The relationship between oral health and respiratory disease.	Respiratory system	Theory lectures	Theory exam
17	2	Vision, Hearing, taste & smell, Structure of Eye, Visual Process and Field of Vision, Visual Pathway Pupillary Reflexes, Color Vision, and Errors of Refraction. Structure of Ear and Auditory Pathway, Mechanism of Hearing and Auditory Defects, Sensation of Taste and Smell.	Special sensations	Theory lectures	Theory





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18	2	Normal body Temperatures, Physiological Variations of body	Temperature of	Theory	Theory
		temperature, Heat Balance, Heat	the Body	lectures	exam
		gain or heat production in the			
		body, Heat loss from the body, Insulator System of the Body,			
		Blood flow to the skin from the			
		body core provides heat transfer,			
		Regulation of body temperature,			
		Mechanisms to decrease or			
		increase body temperature, Sympathetic "Chemical"			
		Excitation of heat production.			
19	2	Parts of Renal system, The	Urinary system	Theory	Theory
		Kidney, Functions of kidneys,		lectures	exam
		Components of kidney,			
		Parenchyma of kidney, Nephron			
		and Juxtaglomerular Apparatus,			
		Renal corpusale, Structure of			
		renal corpuscle, Tubular portion of nephron, Collecting duct.			
20	2	Urine formation, Mechanism of	Urinary system	Theory	Theory
20	_	urine formation, Glomerular	Cimary System	lectures	exam
		Filtration, Pressure determining		icciares	CXam
		filtration, Tubular Reabsorption,			
		Tubular secretion, Micturition,			
		Nerve supply to urinary bladder			
		and sphincters, Renal Function			
		Tests, Relation between renal			
	_	disease & oral health.			
21	2	Introduction, Endocrine glands,	Endocrine	Theory	Theory
		Hormones, Nature of Hormones,	system	lectures	exam
		Classification of hormones,			
		Hormone Secretors, Hormonal action Hormone receptors,			
		action Hormone receptors, Synthesis and storage of			
		hormones, Mechanism of			
		hormonal function, Measurement			
		of Hormone Concentrations in the			
		Blood.			
22	2	Oral manifestations of endocrine	Major endocrine	Theory	Theory
		dysfunction, Control Systems	glands	lectures	exam
		Involving Hypothalamus and			
		Pituitary glands, The pituitary			
		gland, Thyroid gland, Pancreas			
		gland, Adrenal glands.			





23					
23	2	The Functions of the digestive,	Digestive	Theory	Theory
		Structural layers of digestive,	system	lectures	exam
		Stomach, Secretions of the			
		Stomach, Regulation of Stomach Secretion, Mixing of			
		Stomach Contents, Stomach			
		Emptying			
24	2	Small intestine, Secretions of the	Digestive	Theory	Theory
		Small Intestine, Movement in	system	lectures	exam
		the Small Intestine, Liver,	System	rectares	CAGIII
		Functions of the Liver,			
		Pancreatic Secretions,			
		Regulation of Pancreatic			
		Secretion, Large Intestine,			
		Movement in the Large Intestine.			
		Digestion, Absorption, and			
2.5		Transport)	3.6	TI.	TEM .
25	2	Muscle structure, Types,	Muscular	Theory	Theory
		Structure, Microscopic Structure,	system	lectures	exam
		Muscle Physiology, Properties,			
		Contraction and contractile			
		elements, Tone, Electrical and			
		Molecular Changes during			
	_	Muscular Contraction.			
26	2	Muscular system: Tone,	Muscular system	Theory	Theory
		contraction, Molecular Changes		lectures	exam
		During Muscular Contraction,			
		Neuromuscular Junction-			
		Neuromuscular Transmission			
		<u> </u>			
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
	-	•			-
27	2	1	Nervous system	1	Theory
		-		lectures	exam
		1 , 1			
28	2	1	Nervous system	1	Theory
				lectures	exam
20	2		D 1	T1	701
29	2		•	1	-
			system	lectures	exam
	1				
		Meiosis, Aging and Reproductive			
27 28 29	2 2	and Blockers, Nutrition and Metabolism (Energy Requirements). Nerve impulse, synapses, Nervous System Division, Cranial nerves, Neuron and Neuroglia, Receptors, Nerve impulse, Synapse and Neurotransmitters. Reflex Activity, Somatosensory System and Somatomotor System, Physiology of Pain. Aging & reproductive system, Male Reproductive System Female Reproductive System,	Nervous system Nervous system Reproductive system	Theory	Theory exam Theory





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30	2	Body Response in high altitudes, physiological Changes in the Sea deep. Nutrition and metabolism, daily energy requirement, obesity and fitness.	Aviation and Deep physiology and Nutrition	Theory lectures exam
Praction	cal part			
Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Microscope	Practical work	Practical exam
2	2	Collection of Blood Samples	Practical work	Practical exam
3	2	Blood Smears	Practical work	Practical exam
4	2	Functions of Saliva & Taste Sensation	Practical work	Practical exam
5	2	Stimulation and collection of salivary secretion	Practical work	Practical exam
6	2	Separation of blood samples	Practical work	Practical exam
7	2	Differential WBCs	Practical work	Practical exam
8	2	Total Count of WBCs	Practical work	Practical exam
9	2	Total Count of RBCs	Practical work	Practical exam
10	2	Blood groups	Practical work	Practical exam
11	2	Estimation of Hemoglobin	Practical work	Practical exam
12	2	Bleeding and clotting time	Practical work	Practical exam
13	2	Self-Monitoring of blood glucose test	Practical work	Practical exam
14	2	Measurement of blood pressure &pulse rate	Practical work	Practical exam
15	2	Effect of exercise on blood pressure and respiratory rate	Practical work	Practical exam
16	2	Mid Exam	Practical work	Practical exam
17	2	Physiology of vision test	Practical work	Practical exam
18	2	Physiology of hearing test	Practical work	Practical exam
19	2	Physiology of Smell sensation	Practical work	Practical exam
20	2	Measurement of body temperature	Practical work	Practical exam
21	2	Thyroid function (Body mass index)	Practical work	Practical exam
22	2	Thyroid function (Body mass index)	Practical work	Practical exam
23	2	Resuscitation & Artificial respiration	Practical work	Practical exam
24	2	Resuscitation & Artificial respiration	Practical work	Practical exam





25	2	Physiology of Skeletal muscles	Practical work	Practical exam
26	2	Physiology of Skeletal muscles	Practical work	Practical exam
27	2	Physiology of Skeletal muscles	Practical work	Practical exam
28	2	Examination of reflexes (Motor	Practical work	Practical exam
		Function)		
29	2	Seminars and examinations	Practical work	Practical exam
30	2	Seminars and examinations	Practical work	Practical exam
		<u> </u>		

12.Learning and Teaching Resources					
Required textbooks (curricular books, if any)	Essentials of Physiology for Dental				
	Students 2016 (K Sembulingam and				
	Prema).				
Main references (sources)	Text book of medical physiology				
	2017 (Guyton).				
Recommended books and references	Text book of medical physiology				
(scientific journals, reports)	2014 (N Geetha).				
(· · · · · · · · · · · · · · · · · · ·	Text book of Human physiology				
	2014 (Vanders).				
Electronic References, Websites	Miscellaneous sources				





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1. Cou	ırse Name:					
	General Histology					
2. Cou	ırse Code:					
		203 GH	IIS			
3. Sem	nester / Yea	r:				
		Second	year			
4. Des	cription Pre	eparation Date:				
		01 March	2024			
5. Ava	ilable Atter	ndance Forms:				
		Theoretical and	d practical			
6. Nur	nber of Cre	dit Hours (Total) / Num	ber of Units (7	Total)		
Theoretica	ıl: 60 hours	, practical: 60 hours. Tot	al units: 6			
7. Cou	ırse adminis	strator's name (mention a	all, if more tha	n one name	e)	
Name: Le	cturer Dr. N	Iaha Khaled Emai	l: <u>mahaaljame</u>	eely@uomo	sul.edu.iq	
Lecturer I	Or. Taghre	ed Hazim Ema	il: <u>taghreedha</u> z	zem@uomc	sul.edu.iq	
8. Cou	ırse Objecti	ves				
Course O	bjectives	- Introduction to History	ology.			
		- Knowledge about tis	ssues and skel	eton.		
		- Study different sys structures.	stems in the	body and	their tissue	
9. Tea	ching and I	Learning Strategies				
Strategy		 Theory lectures a 	and practical la	aboratories.		
		 Educational vide 	os and utilizat	ion of smar	t boards.	
		 Use of education 	al models.			
		 Focused student 	group discuss	ion.		
10. Cours	se Structure					
Week Hr Required Learning Unit or Learning Evaluati			Evaluation			
		Outcomes	subject	method	method	
1	2	Cells, Basic Tissue	name Basic Tissue	Theory	Theory	
1	_	Cons, Dasie Hosae	Dasic Hissuc	lectures	exam	





2	2	Epithelial Tissue	Epithelial	Theory	Theory
			Tissue	lectures	exam
3	2	Connective Tissue	Connective	Theory	Theory
			Tissue	lectures	exam
4	2	Respiratory System:	Respiratory	Theory	Theory
		conducting portion	System:	lectures	exam
5	2	Respiratory System:	Respiratory	Theory	Theory
		respiratory portion	System:	lectures	exam
6	2	Urinary System: kidney	Urinary	Theory	Theory
		nephrons, collecting tubules and ducts	System	lectures	exam
7	2	Urinary System: ureter,	Urinary	Theory	Theory
		urinary bladder, and male and female urethra	System	lectures	exam
8	2	Integumentary System:	Integumentar	Theory	Theory
		Skin: epidermis, dermis	y System	lectures	exam
9	2	Integumentary System:	Integumentar	Theory	Theory
		skin glands, hair, and nails	y System	lectures	exam
10	2	Hemopoiesis: bone	Hemopoiesis	Theory	Theory
		marrow		lectures	exam
11	2	Hemopoiesis: blood cells	Hemopoiesis	Theory	Theory
				lectures	exam
12	2	Circulatory System	Circulatory	Theory	Theory
			System	lectures	exam
13	2	Circulatory System	Circulatory	Theory	Theory
			System	lectures	exam
14	2	Lymphoid System	Lymphoid	Theory	Theory
			System	lectures	exam
15	2	Lymphoid System	Lymphoid	Theory	Theory
			System	lectures	exam
16	2	Nervous System	Nervous	Theory	Theory
			System	lectures	exam
17	2	Nervous System	Nervous	Theory	Theory
			System	lectures	exam
18	2	Endocrine System	Endocrine	Theory	Theory
			System	lectures	exam
19	2	Endocrine System	Endocrine	Theory	Theory
			System	lectures	exam
20	2	Endocrine System	Endocrine	Theory	Theory
			System	lectures	exam





21	2	Digestive System	Digestive	Theory	Theory
			System	lectures	exam
22	2	Digestive System	Digestive	Theory	Theory
			System	lectures	exam
23	2	Digestive System	Digestive	Theory	Theory
			System	lectures	exam
24	2	Digestive System	Digestive	Theory	Theory
			System	lectures	exam
25	2	Male Reproductive	Reproductive	Theory	Theory
		System	System	lectures	exam
26	2	Male Reproductive	Reproductive	Theory	Theory
		System	System	lectures	exam
27	2	Female Reproductive	Reproductive	Theory	Theory
		System	System	lectures	exam
28	2	Female Reproductive	Reproductive	Theory	Theory
		System	System	lectures	exam
29	2	Eye	Special Sense	Theory	Theory
			Organs	lectures	exam
30	2	Ear	Special Sense	Theory	Theory
			Organs	lectures	exam

Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Slides of basic types of tissue	Practical work	Practical exam
2	2	Slides of types of epithelial tissue	Practical work	Practical exam
3	2	Slides of types of blood cells in blood smears	Practical work	Practical exam
4	2	Slides of larynx, trachea	Practical work	Practical exam
5	2	Slides of lungs including bronchi and bronchioles	Practical work	Practical exam
6	2	Slides of kidney	Practical work	Practical exam
7	2	Slides of ureter, urinary bladder	Practical work	Practical exam
8	2	Slides of layers of epidermis, dermis	Practical work	Practical exam





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9	2	Slides of skin glands, hair	Practical work	Practical exam
10	2	Slides of bone marrow types	Practical work	Practical exam
11	2	Slides of blood cells development	Practical work	Practical exam
12	2	Slides of large artery (aorta), small artery	Practical work	Practical exam
13	2	Slides of medium sized vein	Practical work	Practical exam
14	2	Slides of lymph nodes, palatine tonsils	Practical work	Practical exam
15	2	Slides of thymus, spleen	Practical work	Practical exam
16	2	Slides of nerve fibers, spinal cord	Practical work	Practical exam
17	2	Slides of ganglia, cerebrum, and cerebellum	Practical work	Practical exam
18	2	Slides of pituitary gland, thyroid gland	Practical work	Practical exam
19	2	Slides of parathyroid glands, adrenal glands	Practical work	Practical exam
20	2	Slides of pineal gland, endocrine pancreas	Practical work	Practical exam
21	2	Slides of lip, tongue, and salivary glands	Practical work	Practical exam
22	2	Slides of esophagus, stomach	Practical work	Practical exam
23	2	Slides of duodenum, ileum, and colon	Practical work	Practical exam
24	2	Slides of appendix, liver, pancreas, and gallbladder	Practical work	Practical exam
25	2	Slides of testes, duct of the epididymis	Practical work	Practical exam
26	2	Slides of prostate gland, seminal vesicles, and penis	Practical work	Practical exam
27	2	Slides of ovaries, corpus luteum, and uterus	Practical work	Practical exam





28	2	Slides of placenta,	Practical	Practical exam
		vagina, and mammary glands	work	
29	2	Slides of vertical section of cornea, retina	Practical work	Practical exam
30	2	Slides of vertical section of internal ear	Practical work	Practical exam

	, 1				
12.Learning and Teaching Resources					
Required textbooks (curricular books, if any)	Junqueira's Basic Histology Text Atlas				
Main references (sources)	Anthony L. MESCHER				
Recommended books and references					
(scientific journals, reports)					
Electronic References, Websites	https://www.kenhub.com				
	https://teachmeanatomy.info				





1.	1. Course Name:						
	Prosthodontics						
2.	2. Course Code:						
		202 PR	os				
3.	Semester	·/ Year:					
		Second	year				
4.	Descripti	on Preparation Date:					
		01 March	2024				
5.	Available	e Attendance Forms:					
		Theoretical and	d practical				
		of Credit Hours (Total) / Num	`	Total)			
		hours, practical: 120 hours. To					
		dministrator's name (mention a			<u> </u>		
			alaka2008@u	omosul.edu	ı.iq		
		Objectives					
Cours	_	- Introduction to Complete		v 1 ·			
Objec	tives	- Steps of complete denture	-	inal impres	sion.		
		- Steps of trial denture fabrication.					
		- Complete denture construction.					
9.	Teaching	g and Learning Strategies					
Strate	gy	 Theory lectures and practices 	actical laborate	ories.			
		 Educational videos and 			ds.		
		 Use of educational modern 					
 Focused student group discussion. 							
10. Course Structure							
Week	Hr	Required Learning Outcomes	Unit or	Learning	Evaluation		
			subject	method	method		
			name				





1	1	Complete denture, Objective of complete denture, General consideration in complete	Introduction	Theory lectures	Theory exam
		denture construction, Complete denture component parts			
2	1	Anatomical landmarks,	Anatomical	Theory	Theory
		Maxillary arch anatomical landmarks, Supporting structures, Limiting structures, Relief areas	landmarks	lectures	exam
3	1	Anatomical landmarks,	Anatomical	Theory	Theory
		Mandibular arch anatomical landmarks, Supporting structures, Limiting structures, Relief areas	landmarks	lectures	exam
4	1	Impression tray, Definition, Parts	Complete	Theory	Theory
		of the impression tray, Types of tray, Stock tray – Definition, Types of stock trays, Factors effect in selection of stock tray	Denture Impression	lectures	exam
5	1	Special tray, Advantages of	Complete	Theory	Theory
		special tray, Materials used for	Denture	lectures	exam
		construction of special tray,	Impression		
		Types of special tray,			
		Techniques or methods for			
		construction of special tray, Criteria for special tray			
		construction			
6	1	Dental impression, Definition,	Complete	Theory	Theory
		Complete denture impression,	Denture	lectures	exam
		Definition, Objective of	Impression		
		impression making. Primary impression, Definition, Materials			
		used for making primary			
		impression. Primary cast,			
		Definition, Production of study cast. Secondary impression,			
		Definition, Master cast			
		Definition, Materials used for			
		final impression, Technique used			
		for making final impression, Boxing an impression and			
		making the casts, Advantages of			
		boxing, Common fault in			
	1	impression making	D 1D	TI	T21
7	1	Record base – Definition, Requirements of record base,	Record Base	Theory	Theory
		Types of materials used in		lectures	exam
		construction of record base			





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8	1	Occlusion rims Definition,	Occlusion	Theory	Theory
		Requirements of occlusion rim,	Rims	lectures	exam
		Materials used in construction of			
		occlusion rim, Measurements of			
		maxillary occlusion rim,			
		Measurements of mandibular			
		occlusion rim, Uses of occlusion			
0	1	rim, Occlusal plane, Fox bite	A 4	721	T1
9	1	Temporomandibular joint (TMJ)	Anatomy	Theory	Theory
		Definition, Ligaments,Muscles	And	lectures	exam
		iviuscies	Physiology		
			Of		
			Temporoman		
			dibular Joint		
10	1	Mandibular axes and mandibular	Anatomy	Theory	Theory
		movements, Knowledge of	And	lectures	exam
		mandibular movements,	Physiology		
		Mandibular movements	Of		
			Temporoman		
			dibular Joint		
11	1	Types of jaw relation, Vertical	Maxillomandi	Theory	Thoomy
11	1	jaw relation, Rest position, Inter			Theory
		- occlusal distance, Importance	bular relation	lectures	exam
		of vertical dimension, Increased			
		vertical dimension, Decreased			
		vertical dimension			
12	1	Method of recording rest vertical	Methods Of	Theory	Theory
		dimension, Method of recording	Recording	lectures	exam
		occlusal vertical dimension, Pre	Vertical		
		– extraction records, Methods without pre – extraction record	Relation		
13	1	Centric jaw relation, Importance	Horizontal	Theory	Theory
13	1	of centric jaw relation, Methods	Jaw Relation	lectures	exam
		of recording jaw relation,	Jaw Kelation	lectures	CXalli
		Factors that complicates centric			
		jaw relation, Methods of			
		recording eccentric jaw relation			
14	1	Dental articulator, Definition	Dental	Theory	Theory
		Functions of articulator,	Articulators	lectures	exam
		Requirements of articulator,			
1.5	4	Types of articulator	Б Б	TD1	- TO
15	1	Face- bow, Definition, Parts of	Face – Bow	Theory	Theory
		face – bow, Types of face – bow,		lectures	exam
		Important of the face – bow			





		T			
16	1	Mounting, Definition, Preparation of articulator, Preparation of the casts and mounting the upper cast on CL II articulator, Mounting the lower cast, Errors occurred during mounting	Mounting	Theory lectures	Theory exam
17	1	Selection of anterior teeth, The factors of shade selection, Size selection, Length, Width, Form selection, Materials of anterior teeth, Difference between acrylic and porcelain teeth	Selection Of Artificial Teeth	Theory lectures	Theory exam
18	1	Shade, Bucco-lingual width, Mesio-distal length, Occluso- gingival height, Occlusal form, Advantages of cusp form teeth, Advantages of non- cusp form teeth	Selection Of Posterior Teeth	Theory lectures	Theory exam
19	1	Guideline of artificial teeth arrangement, Arrangement of anterior teeth, Arrangement of upper anterior teeth	Arrangement Of Artificial Teeth	Theory lectures	Theory exam
20	1	Curve of Spee, Compensatory curves, Arrangement of lower posterior teeth, Arrangement of upper posterior teeth, Common errors in arrangement of teeth	Arrangement Of Posterior Teeth	Theory lectures	Theory exam
21	1	Waxing, Definition, Requirements of waxing the polish surfaces, The procedure of waxing, Establishing the posterior palatal seal area Procedure for carving of posterior palatal seal area, Advantages of posterior palatal seal, Esthetic consideration in complete denture	Waxing And Carving	Theory lectures	Theory
22	1	Occlusion, Occlusion of complete denture, Centric occlusion, Centric relation	Complete Denture Occlusion	Theory lectures	Theory exam
23	1	Eccentric occlusion, Concepts of complete denture occlusion, Try-in appointment	Complete Denture Occlusion	Theory lectures	Theory exam





24	1	Flasking of the denture, Flasking	Processing Of	Theory	Theory	
		techniques	The Denture	lectures	exam	
			(Flasking)			
25	1	Causes of errors in occlusion,	Occlusal	Theory	Theory	
		Selective grinding, Correction of occlusal errors, Disadvantages of intra – oral correction, Advantages of extra – oral correction, Rules for selective grinding	Correction	lectures exam		
26	1	Procedure of finishing, Grinding and cutting instruments, Polishing of complete denture, Principles of polishing, Procedures of polishing	Finishing And Polishing Of Complete Denture	Theory lectures	Theory exam	
27	1	Types of material used in repair,	Repair Of	Theory	Theory	
		Causes of denture fracture,	Complete	lectures	exam	
		Types of repair, Laboratory procedure for repairing fractured denture base	Denture			
28	1	Replacement of broken or	Repair Of	Theory	Theory	
		missing tooth, Replacement of missing or lost part, Requirement of repair	Complete Denture	lectures exam		
29	1	Indication for relining or	Relining And	Theory	Theory	
		rebasing, Relining Contraindications of relining and rebasing, The impression techniques for relining and rebasing	Rebasing	lectures exam		
30	1	Laboratory procedures for	Relining And	Theory Theory		
		relining, Rebasing, The chair – side reline technique	Rebasing	lectures exam		
Practical part						
Week	Hr	Laboratory subject	Learning method	Evaluation method		
1	4	Anatomical landmarks upper	Practical work	Practical exam		
2	4	Anatomical landmarks lower	Practical work	Practical exam		
3	4	Pouring edentulous model	Practical work	Practical exam		
4	4	Pouring edentulous model	Practical work	Practical exam		





S		-42			
6 4 Primary impression Practical work 7 4 Pouring Primary impression Practical work 8 4 Special tray Practical Practical exam work 9 4 Final impression Practical Practical exam work 10 4 Record base and bite rim Practical work 11 4 Record base and bite rim Practical work 12 4 Sealing and Mounting Practical work 13 4 Arrangement upper anterior teeth work 14 4 Arrangement lower anterior teeth work 15 4 Arrangement lower anterior teeth work 16 4 Arrangement lower anterior teeth work 17 4 Arrangement upper posterior Practical Practical exam work 18 4 Arrangement lower posterior Practical Practical exam work 19 4 Festooning Practical Practical Practical exam work Practical Practical Practical exam work Practical Practical Practical exam work Practical Practical exam Practical exam work Practical Practical Practical exam work Practical exam work Practical Practical exam work Practical exam work Practical Practical exam work Practical Practical exam work	5	4	Primary impression		Practical exam
Work Practical exam Work	6	1	Drimow improccion		Practical aver
7 4 Pouring Primary impression Practical work 8 4 Special tray Practical work 9 4 Final impression Practical work 10 4 Record base and bite rim Practical work 11 4 Record base and bite rim Practical Practical exam work 12 4 Sealing and Mounting Practical Practical exam work 13 4 Arrangement upper anterior teeth work 14 4 Arrangement upper anterior Practical work 15 4 Arrangement lower anterior teeth work 16 4 Arrangement lower anterior Practical work 17 4 Arrangement upper posterior Practical Practical exam work 18 4 Arrangement upper posterior Practical Practical exam work 19 4 Festooning Practical Practical Practical exam work Practical Practical Practical exam work Practical Practical Practical exam work	0	4	Filmary impression		Fractical exam
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work 19 4 Festooning Practical exam work				work	
19 4 Festooning Practical Practical exam work	18	4	Arrangement lower posterior	Practical	Practical exam
work				work	
	19	4	Festooning	Practical	Practical exam
20 4 Flasking Practical Practical exam				work	
	20	4	Flasking	Practical	Practical exam
work				work	
21 4 Wax elimination Practical Practical exam	21	4	Wax elimination	Practical	Practical exam
work				work	
22 4 Packing Practical Practical exam	22	4	Packing	Practical	Practical exam
work				work	
23 4 Curing Practical Practical exam	23	4	Curing	Practical	Practical exam
work				work	





24	4	Curing	Practical work	Practical exam
25	4	Finishing	Practical work	Practical exam
26	4	Finishing	Practical work	Practical exam
27	4	Finishing	Practical work	Practical exam
28	4	Polishing	Practical work	Practical exam
29	4	Polishing	Practical work	Practical exam
30	4	Repair	Practical work	Practical exam

12.Learning and Teaching Resources						
Required textbooks (curricular books, if any)						
Main references (sources)	Syllabus of complete denture (text book of complete denture) Dental laboratory technology for removable prosthodontics					
Recommended books and references (scientific journals, reports)	S. Yamashita, M. Shimizu, and H. Katada, "A newly proposed method to predict optimum occlusal vertical dimension," Journal of Prosthodontics, vol. 24, no. 4, pp. 287–290, 2015. J. Abduo and K. Lyons, "Clinical considerations for increasing occlusal vertical dimension: a review," Australian Dental Journal, vol. 57, no. 1.					
Electronic References, Websites						





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1. 0	1. Course Name:						
	Oral Histology and Embryology						
2. 0	Course C	Code:					
			206 OHISE				
3. S	emester	r / Year:					
		S	Second year				
4. I	D escript	ion Preparation Date:					
		01	March 2024				
5. A	vailabl	e Attendance Forms:					
			tical and practical				
		of Credit Hours (Total)		(Total)			
		hours, practical: 60 ho					
7. Course administrator's name (mention all, if more than one name)							
Name: Lecturer Dr Abdulsattar Salim Email: <u>abdulsattarsalim@uomosul.edu.iq</u>							
8. Course Objectives							
Course - Introduction to Oral Histology.							
Objectives		- Knowledge about the histology of oral tissues.					
- Study different stages of the development of oral cavity parts.					cavity parts.		
9. Teaching and Learning Strategies							
Strategy		Theory lectures and practical laboratories.					
		 Educational videos and utilization of smart boards. 					
		- Use of educational models.					
		 Focused student group discussion. 					
rocused student group discussion.							
10. Course Structure							
Week	Hr	Required Learning	Unit or subject	Learning	Evaluation		
		Outcomes	name	method	method		
1	2	Embryogenesis,	Embryogenesis	Theory	Theory exam		
		ovulation, fertilization		lectures			

and implantation





2	2	Bilaminar germ layer	Bilaminar germ	Theory lectures	Theory exam
3	2	Trilaminar germ layer: gastrulation and neurulation	Trilaminar germ	Theory lectures	Theory exam
4	2	Development of head and neck (pharyngeal arch, pouch and cleft	Development of head and neck	Theory lectures	Theory exam
5	2	Development of face and anomalies	Development of face	Theory lectures	Theory exam
6	2	Development of tongue and anomalies	Development of tongue	Theory lectures	Theory exam
7	2	Development of palate and anomalies	Development of palate	Theory lectures	Theory exam
8	2	Slide preparation	Slide preparation	Theory lectures	Theory exam
9	2	Tooth development and developmental disturbances of teeth	Tooth development	Theory lectures	Theory exam
10	2	Dentinogenesis and dentin structure	Dentine	Theory lectures	Theory exam
11	2	Amelogenesis, Enamel structures	Enamel	Theory lectures	Theory exam
12	2	Clinical consideration for dentin and enamel	Clinical consideration	Theory lectures	Theory exam
13	2	Dental Pulp	Pulp	Theory lectures	Theory exam
14	2	Cementum and clinical consideration	Cementum	Theory lectures	Theory exam
15	2	Root formation and Cementogenesis	Cementum	Theory lectures	Theory exam
16	2	Periodontal ligaments	Periodontium	Theory lectures	Theory exam
17	2	Principles fiber of pdl and gingival fibers	Periodontium	Theory lectures	Theory exam
18	2	Alveolar bone	Bone	Theory lectures	Theory exam
19	2	Bone formation and resorption	Bone	Theory lectures	Theory exam





20	2	Proteins involve in mineralization of bone and dentin	Bone	Theory lectures	Theory exam
21	2	Oral mucosa and their types	Oral mucosa	Theory lectures	Theory exam
22	2	Gingiva and dentogingival junction	Oral mucosa	Theory lectures	Theory exam
23	2	Eruption of teeth	Eruption	Theory lectures	Theory exam
24	2	Shedding of teeth	Shedding	Theory lectures	Theory exam
25	2	Salivary gland	Salivary gland	Theory lectures	Theory exam
26	2	Salivary proteins	Salivary gland	Theory lectures	Theory exam
27	2	TMJ	TMJ	Theory lectures	Theory exam
28	2	Maxillary sinus	Sinuses	Theory lectures	Theory exam
29	2	Histochemistry	Histochemistry	Theory lectures	Theory exam
30	2	Age changes of soft and hard tissues	Age changes	Theory lectures	Theory exam
Practica	al part				•
Week	Hr	Laboratory subject	Learning method	Evaluation	method
1	2	First week of development ovulation and implantation	Practical work	Practical ex	am
2	2	Second week of development: bilaminar germ layer	Practical work	Practical exam	
3	2	Third week of development trilaminar germ layer	Practical work	Practical exam	
4	2	Development of prechodral plate and primitive streak	Practical work	Practical exam	
5	2	Pharyngeal arch, pouch and cleft	Practical work	Practical exam	
6	2	Development of the face and tongue	Practical work	Practical ex	am





7	2	Development of the Palate and its annomalies	Practical work	Practical exam
8	2	Slide preparation, Tooth development and growth	Practical work	Practical exam
9	2	Tooth development and growth	Practical work	Practical exam
10	2	Dentinogenesis, Dentin structures	Practical work	Practical exam
11	2	Amelogenesis, Enamelstructures	Practical work	Practical exam
12	2	Clinical consideration in enamel and dentin,Dentin hypersensitivity.	Practical work	Practical exam
13	2	Pulp development, pulp structures	Practical work	Practical exam
14	2	Root formation, Cementogenesis	Practical work	Practical exam
15	2	Cementum structures, Clinical consideration of cementum	Practical work	Practical exam
16	2	Periodontium, Periodontal ligaments	Practical work	Practical exam
17	2	Maxilla, mandible, alveolar bone	Practical work	Practical exam
18	2	Oral mucosa membrane, Types of mucosa	Practical work	Practical exam
19	2	Eruption of teeth, Mechanism of eruption	Practical work	Practical exam
20	2	Shedding of the deciduous teeth, Dentino-gingival junction	Practical work	Practical exam
21	2	Tempro-mandibular joints, Maxillary sinus	Practical work	Practical exam
22	2	Histochemistry, Types of histochemical stain	Practical work	Practical exam
23	2	Facial anomalies ,Types of Twins	Practical work	Practical exam





24	2	Development of Digestive system,	Practical work	Practical exam
		Congenital anomalies		
	_	of Digestive system		
25	2	Development of	Practical work	Practical exam
		nervous system,		
		Congenital anomalies		
		of nervous system		
26	2	Development of	Practical work	Practical exam
		muscular system,		
		Congenital anomalies		
		of muscular system		
27	2	Development of	Practical work	Practical exam
		skeletal system,		
		Congenital anomalies		
		of skeletal system		
28	2	Characterization of	Practical work	Practical exam
		proteins involved in		
		Dentin and Bone		
		Mineralization		
29	2	Bone formation and	Practical work	Practical exam
		resorption		
30	2	Salivary proteins and	Practical work	Practical exam
		their relevance to		
		mineral homeostasis		
11.0	D	1 4'		

11. Course Evaluation

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

12.Learning and Teaching Resources Required textbooks (curricular books, if any) Main references (sources) Recommended books and references (scientific journals, reports...) Electronic References, Websites Atlas of oral histology





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1.	Cour	se Name:				
		De	ental Materials			
2.	Cour	se Code:				
			207 DM			
3.	Seme	ster / Year:				
			Second year			
4.	Desc	ription Preparation Date:				
		0.3	March 2024			
5.	Avail	able Attendance Forms:				
		Theore	etical and practical			
6.	Num	per of Credit Hours (Total) / Number of Units (7	Γotal)		
Theore	etical	30 hours, practical: 60 ho	ours. Total units: 4			
7.	Cour	se administrator's name (n	nention all, if more tha	n one name	e)	
Name:	Lect	urer Dr Ali Salah Khaza'a	1 Email: alisk20	012@uomos	sul.edu.iq	
8.	Cour	se Objectives				
Cours	e	- Introduction to Dental	Materials.			
Object	tives	• • •	•	•		
		- Study of the requirem	<u> </u>		als.	
		- Practical manipulation	n of a variety of dental	materials.		
9.	Teacl	ning and Learning Strategi	es			
Strate	gy	- Theory lectures an	d practical laboratorie	S.		
		 Educational videos 	s and utilization of sma	art boards.		
		 Use of educational 				
	 Focused student group discussion. 					
10. Co	ourse	Structure				
Week	Hr	Required Learning	Unit or subject name	Learning	Evaluation	
		Outcomes		method	method	

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction to dental materials, Physical, chemical and biological properties of	Introduction and physical properties of dental material	Theory lectures	Theory exam





	342)	dental materials			
)	- T1	TO I
2	1	Mechanical properties	Mechanical properties	Theory	Theory
				lectures	exam
3	1	Definition, requirement,	Gypsum materials	Theory	Theory
		types, gypsum bonded investment		lectures	exam
4	1	phosphate bonded	Gypsum materials	Theory	Theory
		investment, ethyl silicate bonded		lectures	exam
5	1	Definition, Ideal properties	Impression materials	Theory	Theory
		of impression materials,		lectures	exam
6	1	Classification of impression	Impression materials	Theory	Theory
		materials, Non elastic impression materials		lectures	exam
7	1	Impression plaster,	Impression materials	Theory	Theory
		Impression compound		lectures	exam
8	1	Zinc oxide – eugenol,	Impression materials	Theory	Theory
				lectures	exam
9	1	Elastomeric impression	Impression materials	Theory	Theory
		material		lectures	exam
10	1	Definition, Requirements,	Waxes	Theory	Theory
		classification of wax		lectures	exam
11	1		Wayaa	Theory	Theory
11	1		waxes	1	
				lectures	exam
12	1		Polymers	Theory	Theory
		polymerization		lectures	exam
		Definition of polymer, co-			
		Types of polymerization,			
		Heat activated acrylic,			
12	1		Polymers	Theory	Theory
13	1	1 -	1 Olymors	1	
1		Chemically activated resin		iectures	exam
11	1	classification of wax according to origin & melting point, classification of wax according to uses, properties of dental waxes. Polymers and polymerization Definition of polymer, co- polymer, cross-link polymer and Degree of polymerization Factors which control structure and properties of polymer Types of polymerization, Heat activated acrylic, Composition, Properties Chemically activated resin, Composition, Properties Light activated resin, Composition, Properties	Waxes	lectures Theory lectures Theory	exam Theory exam Theory





		compared to heat activated resins			
		Polymers used in dentistry			
		Processing errors			
14	1	factors affecting setting	Investment materials	Theory	Theory
		time, setting expansion,		lectures	exam
		strength, storage and			
		manipulation of gypsum			
		products, and hygroscopic			
1.5	1	expansion Classification of dental	0 1 1	TP1	TP1
15	1	cements, Definition,	Cement materials	Theory	Theory
		Requirements		lectures	exam
16	1	Definition, indication,	Temporary filling	Theory	Theory
		Types, Requirements		lectures	exam
17	1	Metallic denture base	Metal and metal alloy	Theory	Theory
		materials, Types of metal		lectures	exam
		and metal alloys, Definition		10000100	
		of alloy, Requirement of			
		casting alloy, Application of			
18	1	dental alloy Classification of metal,	Metal and metal alloy	Theomy	Theory
10	1	classification of dental	Wietai and metai anoy	Theory	Theory
		alloy, gold foil (advantage,		lectures	exam
		disadvantages), gold alloys,			
19	1	Composition, Properties	Matal and matal allow	Theomy	Theomy
19	1	Alternative of gold alloys Metal ceramic alloys,	Metal and metal alloy	Theory	Theory
		Requirement, Types		lectures	exam
		Removable denture base			
		alloys, Requirements, Types			
		Co-Cr alloy, Application,			
		Composition, properties,			
		Advantages, Disadvantages			
20	1	Titanium and Titanium	Metal and metal alloy	Theory	Theory
		alloys, Applications,		lectures	exam
		Properties, Ni/Cr alloys,			
		Composition, Indications, Wrought stainless steel alloy			
21	1	Direct filling material,	Filling materials	Theory	Theory
41	1	Definition, Factors causing	1 ming materials	lectures	exam
		loss of tooth substance		icciules	CAGIII
22	1	Requirement of an ideal	Filling materials	Theory	Theory
		filling material.		lectures	exam
		Classification of filling			
		material			





		Anterior filling materials,			
		Disadvantages			
23	1	Composite filling materials	Filling materials	Theory	Theory
		composition and structure,		lectures	exam
	_	Types of composite			
24	1	Posterior filling materials	Filling materials	Theory	Theory
		Dental amalgam		lectures	exam
		Classification of amalgam			
		alloys			
		Properties of set amalgam			
		Shaping and finishing			
2.5	-	Mercury toxicity	D	FD1	TO I
25	1	Preventive materials	Preventive materials	Theory	Theory
				lectures	exam
26	1	Root canal filling materials	Root canal filling	Theory	Theory
		(obturating materials)	materials	lectures	exam
27	1	Finishing and polishing	Finishing and polishing	Theory	Theory
		material		lectures	exam
28	1	Definition, Types,	Relining material	Theory	Theory
		Requirements, Indication,		lectures	exam
		Soft liners, Types,			
		Requirements, Indication,			
20	1	Properties	T 1 4 1 1	TP1	TP1
29	1	Implant materials	Implant materials	Theory	Theory
				lectures	exam
30	1	Maxillofacial materials	Maxillofacial	Theory	Theory
			materials	lectures	exam

Practical part

Week	Hr	Laboratory subject	Learning	Evaluation
		J J	method	method
1	2	Introduction and physical properties of dental material	Practical work	Practical exam
2	2	Mechanical properties (stress strain curve)	Practical work	Practical exam
3	2	Showing different types of gypsum materials (plaster and stone)	Practical work	Practical exam
4	2	Steps of mixing plaster and demonstrate the steps of setting	Practical work	Practical exam
5	2	Impression plaster, demonstrate the manipulation of impression compound	Practical work	Practical exam
6	2	Zinc oxide impression material and agar impression demonstrate the mixing of zinc oxide impression	Practical work	Practical exam





7	2	Alginate impression (elastic impression) showing the trays used and mixing of alginate and water according to manufacturer instructions	Practical work	Practical exam
8	2	Polysulphide, condensation and addition silicon\mixing of heavy body and light body	Practical work	Practical exam
9	2	Polyether, hybrid impression, digital impression	Practical work	Practical exam
10	2	Showing different types of wax (denture base plate, denture casting wax and others	Practical work	Practical exam
11	2	Demonstrate how to use wax material and its manipulation	Practical work	Practical exam
12	2	Introduction to polymers	Practical work	Practical exam
13	2	Different types of denture base materials(heat, cold and light	Practical work	Practical exam
14	2	activated polymers) demonstrate the mixing of polymer and monomer	Practical work	Practical exam
15	2	Thermoplastic polymers (flexible denture base material)	Practical work	Practical exam
16	2	Investment materials (showing the method of the investment)	Practical work	Practical exam
17	2	Introduction to cement materials	Practical work	Practical exam
18	2	Showing different types of cement materials and the method of mixing of cement	Practical work	Practical exam
19	2	Temporary filling (use and manipulation)	Practical work	Practical exam
20	2	Introduction to metal and metal alloy	Practical work	Practical exam
21	2	Showing the different types of metal and metal alloy	Practical work	Practical exam
22	2	Introduction to crown and bridge material	Practical work	Practical exam
23	2	Introduction to filling material	Practical work	Practical exam
24	2	Amalgam filling showing the amalgam capsules and mixing of amalgam	Practical work	Practical exam
25	2	Composite filing (chemical and light activated)	Practical work	Practical exam
26	2	Micro filled, hybrid, and nano-composite	Practical work	Practical exam
27	2	Demonstrate the setting of chemical and light activated composite filling material	Practical work	Practical exam
28	2	Showing different types of preventive materials (tooth pastes, gargles. Mouth wash fluoride varnishes and resin sealers)	Practical work	Practical exam
29	2	Demonstrate the obturating materials (Gutta percha, sealers) and endodontic instruments	Practical work	Practical exam
30	2	Finishing and polishing materials	Practical work	Practical exam





11.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such

ε	ε				
as daily preparation, daily oral, monthly, or written exams, reports etc					
12.Learning and Teaching Resources					
Required textbooks (curricular	Criag restorative dental materials				
books, if any)	Philips Applied Dental Materials				
, , ,	Dental materials their selection and use				
Main references (sources)					
Recommended books and references					
(scientific journals, reports)					
Electronic References, Websites					





1. Course Name:					
	Biosafety and bios	ecuri	ty		
2. Course Code:					
	208 BSBS				
3. Semester / Year:					
	Second year	•			
4. Description Preparation	Date:				
	01 March 202	24			
5. Available Attendance Fo	orms:				
	Theoretical and pr	actica	ıl ————		
6. Number of Credit Hours	(Total) / Number	of Ur	its (Total)		
Theoretical: 15 hours, practical					
7. Course administrator's n	•			· ·	
Name: Dr. Eman Salim	Email:	eman	_salim@uomos	sul.edu.iq	
8. Course Objectives					
Course - Introduction to					
Objectives - Study of princi	·	nd bio	security.		
•	osafety practices.				
- Occupational h	azards safety and s	ecuri	ty.		
9. Teaching and Learning S	Strategies				
Ct. t	ares and practical l	abora	tories.		
	videos and utiliza				
	ational models.		- Dillar Courab.		
		•			
- Focused stu	 Focused student group discussion. 				
10. Course Structure					
Week Hr Required Learning Outcomes	Unit or sub	ject	Learning method	Evaluation method	
Outcomes	name		memou	incuiva	





		1	T	1	
1	1	Occupational safety and health Key components of bio-risk management Definition & concepts of biosecurity & biosafety	Introduction to biosafety and biosecurity	Theory lectures	Theory exam
2	1	Components of biosafety in all labs Biosafety barriers in labs Personal Protective Equipment (PPE) Facility design	Universal safety precaution	Theory lectures	Theory exam
3	1	Risk assessment strategy Risk groups, biosafety levels Standard practices required in bio lab A biosafety cabinet(BSC)	Biosafety level	Theory lectures	Theory exam
4	1	COSHH: control of substances hazardous to health Assessing risk for work with blood &human tissue	Biorisk and Biohazard	Theory lectures	Theory exam
5	1	Assess the capability of the laboratory Staff control Relation of risk groups of biosafety level, practices and equipment	Biorisk Management System	Theory lectures	Theory exam
6	1	Sustainability of biorisk management system Strengthening biorisk management	Mitigation control measurement	Theory lectures	Theory exam
7	1	Categories of biological wastes Decontamination of biological wastes	Types of biological wastes	Theory lectures	Theory exam
8	1	International transport regulation The basic triple packaging system	Transportation of biological material	Theory lectures	Theory exam
9	1	Spill clean-up procedure Investigating an Incident	The accident response	Theory lectures	Theory exam
10	1	Overview of biological safety &security equipment	Biological safety	Theory lectures	Theory exam
11	1	Risk characterization in biosecurity Vulnerability assessment Components of laboratory biosecurity	Introduction to Biosecurity	Theory lectures	Theory exam





12	1	Biosafety rules simulations	Biosafety	Theory lectures	Theory exam
			practices		
13	1	Laboratory Hygiene	Safety for	Theory lectures	Theory exam
		Engineering and building	support staff		
		maintenance services			
14	1	Hazardous chemical	Disinfection and	Theory lectures	Theory exam
		Decontamination and	Sterilization		
		biological waste Disposal			
15	1	Biosafety training	Biosafety	Theory lectures	Theory exam
			training		

Practical part

Tractic			Τ.	
Week	Hr	Laboratory subject	Learning	Evaluatio
			method	n method
1	1	Introduction to biosafety and biosecurity	Practical	Practical
		Occupational safety and health	work	exam
		Key components of biorisk management		
2	1	Definition & concepts of biosecurity & biosafety	Practical	Practical
			work	exam
3	1	Universal safety precaution	Practical	Practical
		Components of biosafety in all labs	work	exam
4	1	Biosafety barriers in labs Personal Protective	Practical	Practical
		Equipment (PPE) Facility design	work	exam
5	1	Biosafety level	Practical	Practical
		Risk assessment strategy	work	exam
		Risk groups, biosafety levels, level 1 &2 practices		
		and equipment		
6	1	Level 3, 4 &5	Practical	Practical
			work	exam
7	1	Standard practices required in bio lab	Practical	Practical
			work	exam
8	1	Biological agents Routes of infections Basis of	Practical	Practical
		control measures	work	exam
9	1	Hazard group classification system	Practical	Practical
		A biosafety cabinet (BSC)	work	exam
10	1	Biorisk and Biohazard	Practical	Practical
		COSHH: control of substances hazardous to health	work	exam
		Assessing risk for work with blood &human tissue		
11	1	Hazards	Practical	Practical
		Control measures for work with blood and human	work	exam
		tissues		





12	1	Containment level	Practical	Practical
			work	exam
13	1	Biorisk Management System	Practical	Practical
		Assess the capability of the laboratory Staff control	work	exam
14	1	Relation of risk groups of biosafety level, practices	Practical	Practical
		and equipment	work	exam
15	1	Mitigation control measurement Sustainability of	Practical	Practical
		biorisk management system Strengthening biorisk management	work	exam
16	1	Types of biological wastes	Practical	Practical
		Categories of biological wastes Decontamination of biological wastes	work	exam
17	1	Transportation of biological material	Practical	Practical
		International transport regulation The basic triple packaging system	work	exam
18	1	The accident response Spill clean-up procedure	Practical	Practical
		Investigating an Incident	work	exam
19	1	Overview of biological safety & security Equipment	Practical	Practical
			work	exam
20	1	Introduction to Biosecurity	Practical	Practical
		Risk characterization in biosecurity	work	exam
21	1	Vulnerability assessment Components of laboratory	Practical	Practical
		biosecurity	work	exam
22	1	Biosafety practices part	Practical	Practical
			work	exam
23	1	Biosafety rules simulations 3D	Practical	Practical
			work	exam
24	1	Decontamination and biological waste disposal	Practical	Practical
			work	exam
25	1	Safety for support staff	Practical	Practical
		Laboratory Hygiene	work	exam
26	1	Engineering and building maintenance services	D (1	D (1
26	1	Disinfection &Sterilization	Practical	Practical
27	1		work	exam
27	1	Hazardous chemical	Practical	Practical
20	1		work	exam
28	1	Hazardous chemical	D : 1	D (1.1
29	1	Biosafety training	Practical	Practical
			work	exam





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30	1	Biosafety trai	ning		Practical	Practical
					work	exam
11.Co	ourse]	Evaluation				
Distrib	uting	the score out	t of 100 accor	ding to the tasks assign	ned to the st	udent such
as daily	y prep	aration, daily	y oral, month	ly, or written exams, re	ports etc	e
12.Le	arning	g and Teachi	ng Resources	S		
Requir	ed	textbooks	(curricular			
books,	if any	r)				
Main r	eferen	ices (sources)			
Recom	Recommended books and references					
(scientific journals, reports)						
Electro	nic R	eferences, W	ebsites			





Course Description – Third year Course Description Form

4 ~					
1. Cours					
Prosthodontics					
2. Cours	e Code:				
	301 PROS				
3. Semes	ster / Year:				
	Third year				
4. Descr	iption Preparation Date:				
	01 March 2024				
5. Availa	able Attendance Forms:				
	Theoretical and practical				
6. Numb	per of Credit Hours (Total) / Number of Units (Total)				
Theoretical:	30 hours, practical: 90 hours. Total units: 5				
7. Cours	e administrator's name (mention all, if more than one name)				
Name: Assis	stant Prof Luma Muthafar				
Email: Luma	a2005@uomosul.edu.iq				
8. Cours	e Objectives				
Course	- Introduction to partial dentures.				
Objectives	- Study of principles of biomechanics.				
	- Study types of clasps, major and minor connectors.				
	- Denture base materials for partial dentures.				
9. Teach	ing and Learning Strategies				
Strategy	- Theory lectures and practical laboratories.				
	 Educational videos and utilization of smart boards. 				
	 Use of educational models. 				
	 Focused student group discussion. 				





10. C	10. Course Structure					
Week	Hr	Required Learning Outcomes	Unit or subject	Learni	Evaluat	
			name	ng	ion	
				method	method	
1	1	Removable partial denture (RPD),	Introduction to	Theory	Theory	
		Objectives for RPD construction,	Removable Partial	lectures	exam	
		Causes of teeth loss, Indications of removable partial dentures.	Dentures			
		Fixed partial denture, Indications for				
		fixed partial denture, indications for				
		Dental implant therapy,				
		Contraindications for dental implant				
		therapy.				
	-	Terminology and re-finishing	C1 'C' '	TD1	TD1	
2	1	Need for classification Requirements of an acceptable	Classification of	Theory	Theory	
		method of classification	Partially	lectures	exam	
		Removable partial dentures may be	Edentulous arches			
		classified according to the type of				
		support				
		Removable partial dentures may be				
		classified according to the type of material				
		Removable partial dentures may be				
		classified according to the type of				
		treatment				
		Classification based on arch				
		configuration				
		Kennedy – Applegate – Fiset classification system.				
		Applegate's rules governing the				
		application of the Kennedy				
		classification method				
3	1	The ideal requirements for successful	Surveying	Theory	Theory	
		removable partial denture		lectures	exam	
		Purposes (Objective) of Surveying the Diagnostic Cast				
		Advantages of single path of				
		placement (insertion)				
		Guiding planes				
		Dental surveyor				
		Types of dental surveyors				
		Parts of dental surveyor (Ney type				
		surveyor)				





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4	1	Principles of surveying	Surveying	Theory	Theory
		Types of undercuts established by		lectures	exam
		surveying			
		Factors that determine and affect the			
		path of placement (insertion) and removal of the RPD, rules of			
		surveying			
5	1	Main components of RPD	Parts of Removable	Theory	Theory
		Major connectors; Requirements of	Partial Denture	lectures	exam
		major connectors			
		Guidelines for design and location of			
		major connectors			
		Characteristics of major connectors			
6	1	Special Structural Requirements for	Maxillary Major	Theory	Theory
		Maxillary Major Connectors	Connectors	lectures	exam
		Types of Maxillary Major Connector;			
		Single palatal bar, Single palatal strap, Anterior-posterior palatal bars,			
		Combination anterior and			
		posterior palatal strap— type			
		connector, Palatal plate-type			
		connector, U-shaped palatal			
		connector.	2.5 414 4 2.5 4		
7	1	Specialstructural requirements	Mandibular Major	Theory	Theory
		Types of mandibular major	Connectors	lectures	exam
		connectors; Lingual bar, Methods that may be used to determine the relative			
		height of the floor of the mouth.			
		Lingual plate (linguoplate), The			
		indications for the use of linguoplate.			
		Double lingual bar (lingual bar with			
		cingulum bar), Indications for use of			
		double lingual bar			
		Labial bar, Indications for use of			
		labial bar			
8	1	Characteristics and location	Minor Connectors	Thoomy	Theory
0	1	Definition, Functions Form & location	Willion Collinectors	Theory	Theory
				lectures	exam
		Basic types of minor connectors;			
		Tissue stops, Finishing lines Reaction of Tissue to Metallic			
		Coverage			





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9	1	The purposes of the rest in general Occlusal Rest, Extended Occlusal Rest, Interproximal Occlusal Rest, Internal Occlusal Rests, Occlusal Rest Seat Preparation, Occlusal Rests on Amalgam Restorations, Occlusal Rest on Crowns, Lingual Rests (Cingulum Rest), Incisal Rests and Rest Seats, Implants as a Rest	Rests and Rest Seats	Theory	Theory
10	1	Direct retainers Indirect retainers The extra coronal retainer (Clasp type), Component parts, Function, and position of clasp assembly parts, Factors affecting the magnitude of retention, The basic principles of clasp design	Retention and Removable Partial Denture Retainers	Theory lectures	Theory exam
11	1	Clasps designed without movement accommodation. Circumferential (Circle or Akers) clasp Ring-type clasp Embrasure (double Akers) clasp Back action clasp Multiple clasps Half-and-half Clasp Reverse-actionclasp (Hairpin) Disadvantages of circumferential clasps in summary Clasps designed to accommodate distal extension functional movement RPI clasp, Bar-type clasp assembly, RPA clasp; Akers clasp, Infra-bulge clasp, Combination clasp	Extra Coronal Direct Retainers (Types of clasp assemblies)	Theory lectures	Theory exam
12	1	Internal attachments Precision Attachments Some indications for precision attachments Some of the contraindications for precision attachments The main types of precision attachments Selection of an Attachment for a Removable Partial Denture	Intra-coronal Direct Retainers (Internal Attachments, Precision Attachments	Theory lectures	Theory exam





13	1	Stress breakers	Stress-Breakers	Theory	Theory
		Types of stress breakers	Zures Zuren	lectures	exam
14	1	The main factors influencing the	Indirect Retainers	Theory	Theory
17	1	effectiveness of an indirect retainer	mancet Retainers	lectures	exam
				icciares	CAdili
		The auxiliary functions of indirect retainers			
		Forms of Indirect Retainers			
15	1	Auxiliary occlusal rest	Indirect Retainers	Theory	Theory
13	1	Lingual rest, Incisal rest	(continue)	lectures	exam
		Canine extensions from occlusal rest,	(continue)	lectures	CAGIII
		Cingulum bars (continuous bars) and			
		linguo-plates			
		Modification areas, Rugae support			
16	1	Block-out and relief	Laboratory	Theory	Theory
		Cast preparation	procedures:	lectures	exam
		Types of block-out of master cast;	Blockout and Relief		
		Parallel block-out, Shaped block-out,			
		Arbitrary block-out, Relieving the			
		master cast			
		Purpose of relief Sites			
		Tissue Stops			
17	1	Duplicating a stone cast	Laboratory	Theory	Theory
		Duplicating material and flask	procedures:	lectures	exam
		Impression	Duplication and		
		Refractory cast	Refractory Cast		
			Construction		
18	1	Waxing the framework Spruing	Laboratory: Wax	Theory	Theory
		General rules for spruing	Pattern	lectures	exam
		Investing the sprued pattern			
		Purpose of investment			
		Burnout			
19	1	Casting	Laboratory	Theory	Theory
		Casting recovery	procedures:	lectures	exam
		Finishing the framework	Casting and		
		Sprue removal	Finishing		





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20	1	The primary function of denture base	Denture Base in	Theory	Theory
		Types of denture base according to	RPD	lectures	exam
		support			
		Types of the denture base according to materials			
		Advantages of metal denture base			
		Disadvantages of metal denture base			
		Design consideration of denture base			
		Periodontal consideration of denture			
		base design			
21	1	Types of artificial teeth Record bases	Record Bases,	Theory	Theory
21	1	Types of record bases according to	Occlusion Rims,	lectures	exam
		materials constructed from it	Mounting and	icctures	CAdili
		Occlusion rims: Occlusion rims for	Arrangement of		
		static jaw relation records	Teeth		
		Occlusion rims for recording			
		functional or dynamic jaw relationship			
		record			
		Mounting casts on the articulator			
		Arrangement of artificial teeth to the opposing cast			
		Principles that should be taken during			
		arrangement of artificial teeth			
		Laboratory procedure of arrangement			
22	1	Biomechanical considerations	Biomechanics of	Theory	Theory
22	1	Possible movements of partial	Removable Partial	lectures	exam
		dentures	Dentures	rectures	Схапт
		Tooth-tissue–supported prosthesis	2 533.002.00		
23	1	Tooth-supported partial denture	Biomechanics of	Theory	Theory
		Occlusal Rest Seat Preparation and	Removable Partial	lectures	exam
		Denture Movement	Dentures (continue)		
		Impact of Implants on Movements of Partial Dentures			
24	1	Difference in Prosthesis Support and	Principles of	Theory	Theory
		Influence on Design	Removable Partial	lectures	exam
		Differentiation Between Two Main	Denture Design		
25	1	Types of Removable Partial Dentures Components of Partial Denture Design	Principles of	Theory	Theory
2.5	1	Implant Considerations in Design	Removable Partial	lectures	exam
		Implant Considerations in Design	Denture Design	10014105	CAUIII
	1		= 3111111 2 2 0 1 g 11		





26	1	1st Phase: Education of patient	Clinical Phases of	Theory	Theory
20	1	-	Removable Partial	lectures	=
		2nd Phase: Diagnosis, Treatment		lectures	exam
		Planning, Design, Treatment Sequencing, and Mouth Preparation	Denture		
			Construction.		
		3rd Phase: Support for Distal Extension Denture Bases			
		4th Phase: Establishment and			
		Verification of Occlusal Relations and			
		Tooth Arrangements			
		5th Phase: Initial Placement Procedures			
27	1	6th phase: Periodic Recall	A 1 D 1. 1 .	T1	T1
27	1	Acrylic removable partial dentures	Acrylic Removable	Theory	Theory
		Appearance	Partial Dentures	lectures	exam
		Maintenance of space			
		Reestablishment of occlusal			
		relationships			
		Conditioning of teeth and residual			
		ridges			
		Interim restoration during treatment			
		Conditioning the patient for wearing			
		a prosthesis			
20	1	Clinical procedure for placement	F1 '1.1	TT1	TP1
28	1	Flexible removable partial dentures	Flexible	Theory	Theory
		Type of material used for the flexible	Removable Partial	lectures	exam
20	1	denture, Support and Retention	Dentures	TDI	TD1
29	1	Broken clasp arms	Repairs and	Theory	Theory
		Several reasons for breakage of clasp	Additions to	lectures	exam
		arms	Removable Partial		
		Fractured occlusal rests	Dentures		
		Distortion or breakage of other			
		components – major and minor			
		connectors			
		Addition of a new artificial tooth to a RPD			
		Repair by soldering			
30	1	Components of CAD/CAM system	Digitally Designed	Theory	Theory
		Types of Digital Scanner	& Fabrication	lectures	exam
		Digital RPD Framework Design (step	Process of RPD		
		by step)	Framework Using		
		DigitalFabrication Process	CAD/CAM System		
			OTID, OTHER DYSICIII		





11.Course Evaluation

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

as daily preparation, daily oral, monthly, or written exams, reports etc					
12.Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)					
Recommended books and references					
(scientific journals, reports)					
Electronic References, Websites					





	•				
1. Cours	se Name:				
	Oral Surgery				
2. Cours	se Code:				
	302 OSUR				
3. Seme	ester / Year:				
	Third year				
4. Desci	4. Description Preparation Date:				
	01 March 2024				
5. Avail	5. Available Attendance Forms:				
Theoretical and practical					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theoretical	Theoretical: 30 hours, practical: 60 hours. Total units: 4				
7. Cours	se administrator's name (mention all, if more than one name)				
Name: Assi	stant Lecturer Rayan Al-Mallah				
	analmallah@uomosul.edu.iq				
8. Cours	se Objectives				
Course	- Introduction to minor oral surgery and tooth extraction.				
Objectives	- Study of instruments and tools for use in oral surgery.				
	- Study of anaesthesia in oral surgery.				
	- Knowledge about complications and issues related to anesthesia and				
	tooth extraction.				
9. Teacl	hing and Learning Strategies				
Strategy	- Theory lectures and practical laboratories.				
	 Educational videos and utilization of smart boards. 				
	 Use of educational models. 				

10. Course Structure

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	History taking, Demographic data Chief complaint History of present complaint Past dental and medical history	Diagnosis in oral surgery	Theory lectures	Theory exam





	$\overline{}$		T		
		Social and family history			
		Examination Extra-oral examination	Diagnosis in oral surgery	Theory lectures	Theory exam
2	1	Intra-oral examination Differential diagnosis Diagnosis of pain, lump, and ulcer Consent			
		Communicable pathogenic	Infection	Theory	Theory
		organisms Aseptic techniques, Terminology,	Control in	lectures	exam
		Concepts	Surgical		
3	1	Techniques of Instrument	Practice		
		Sterilization; Sterilization with			
		Heat; Sterilization with Gas Techniques of Instrument			
		Disinfection Disinfection			
		Maintenance of Sterility	Infection	Theory	Theory
4	1	Surgical Field Maintenance Operatory Disinfection	Control in	lectures	exam
-	1	Surgical Staff Preparation	Surgical Practice		
		Postsurgical Asepsis	Practice		
		Extraction of teeth and Contra	Extraction of	Theory	Theory
		indications of extraction	teeth	lectures	exam
		Extraction of teeth (exodontia), Definition, Methods of extraction.			
		Indications of teeth extraction,			
		Severe caries, Severe periodontal			
		disease, Pulp pathology, Apical			
		pathology, Orthodontic reasons. Prosthetic considerations.			
5	1	Impacted teeth.			
		Supernumerary teeth.			
		Tooth in the line of fracture of the			
		jaws.			
		Teeth in relation with pathological conditions.			
		Retained roots.			
		Prior to irradiation, Focal sepsis.			
		Aesthetic.	Cont	T1	T1.
		Contra-indications of teeth extraction.	Contra indications of	Theory lectures	Theory exam
6	1	Local contra-indications.	extraction	icciuies	CAAIII
		Systemic contra-indications.	- Muchon		
		Pre-extraction evaluation.			





		Clinical preoperative evaluation.			
		General evaluation.			
		Local evaluation.			
		Radiological evaluation.			
		Objectives and benefits			
		Light illumination.	General	Theory	Theory
		Position of the operator.	arrangement	lectures	exam
		Position of the patient.	for extraction		
		Height of the dental chair.	and Dental		
7	1	Parts of dental forceps.	forceps		
,	1	Forceps for the maxillary teeth.			
		Forceps of upper anterior teeth.			
		Forceps of upper premolars.			
		Forceps of upper molars.			
		Bayonet of upper posterior teeth.			
		Forceps for the mandibular teeth.	General	Theory	Theory
		Forceps of lower anterior teeth.	arrangement	lectures	exam
		Forceps of lower premolars.	for extraction		
		Forceps of lower molars.	and Dental		
8	1	Bayonet of lower posterior teeth. Mechanical principle of forceps	forceps		
		(traditional) extraction.			
		Physic forceps.			
		Parts, Mechanical principle and			
		technique			
		Soft tissue retraction.	Techniques of	Theory	Theory
		Handling of the forceps.	forceps	lectures	exam
		Cheek retraction and support (the	extraction and		
		use of the non-working hand).	post-operative		
		The application of the forceps	instructions		
9	1	blades to the tooth (tooth grasp).			
		The displacement of the tooth from			
		its socket.			
		Post-operative care to the extraction			
		socket.			
		Instruction to the patient.		- mi	and .
		Line of withdrawal.	Elevators	Theory	Theory
		Point of application.		lectures	exam
10	1	Parts of dental elevators.			
		Mechanical principles of using			
		dental elevators.			
		Wheel and axil.			





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		Fulcrum.			
		Wedging. Combination of mechanical principles.			
		Clinical uses of elevators.	Elevators	Theory	Theory
		Straight elevators.	Lievators	lectures	exam
		Coupland's chisel.			
		Cryer's elevator.			
		Winter's elevator.			
11	1	Apexo elevator.			
		Warwick-James elevator.			
		Guiding principles for using dental			
		elevators.			
		Complications of using dental			
		elevators.			
		Failure to secure anaesthesia.	Complications	Theory	Theory
		Failure to remove the tooth with	of dental	lectures	exam
		either forceps or elevator.	extraction		
		Fracture of crowns and roots,			
		alveolar bone, maxillary tuberosity,			
12	1	adjacent or opposing tooth, mandible.			
		Dislocation of the tempro-			
		mandibular joint (T.M.J.).			
		Displacement of a root into the soft			
		tissue and tissue spaces and the			
		maxillary antrum	- 1: · ·	TO!	TO!
		Excessive bleeding after extraction.	Complications	Theory	Theory
		Damage to the surrounding soft tissues.	of dental	lectures	exam
1.2	1	Post -operative pain.	extraction		
13	1	Post-operative swelling.			
		Creation of an oro-anrtal			
		communication.			
		Trismus.	Dania1	T1	T1
		Instruments of basic oral surgery. Instruments to incise tissues.	Basic surgical instruments	Theory lectures	Theory
		Instruments for elevating	instruments	lectures	exam
		mucoperiosteum.			
14	1	Instruments for controlling			
		hemorrhage.			
		Hemostat (artery forceps).			
		Instruments to grasp tissues.			
		Toothed-tissue forceps.			





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		Allis tissue forceps. Instruments for removing bone.			
		Rounger forceps (bone cutter and			
		bone nibbler).			
		Chisel and mallet.			
		Bone file.			
		Surgical burs and handpiece.			
		Instruments to remove soft tissues			
		from bony defects.			
		Surgical curette.			
		Instruments for suturing mucosa.			
		Needle holder.			
		Needles.			
		Suture materials			
		Scissors.			
		Instruments for retraction of soft			
		tissues.			
		Cheek retractor.			
		Mucoperiosteal flap retractor.			
		Instruments for irrigation and for			
		providing suction.			
		Instrument of draping	Introduction to	Theory	Theory
		Neurophysiology Mode and site of action of local	local	lectures	
15	1	anesthetic	anesthesia	lectures	exam
		Active forms of local anesthetics	anesmesia		
		Pharmacokinetics of local	Pharmacology	Theory	Theory
			of local		
16	1	anesthetics, Metabolism	anesthesia	lectures	exam
		Systemic actions of local anesthetics	anesmesia		
		Vasoconstrictors	Pharmacology	Theory	Theory
1.7		Mode of action	of local	lectures	exam
17	1	Dilutions of vasoconstrictors	anesthesia	rectares	CAUTT
		Specific agents			
		Trigeminal nerve, Ophthalmic	Surgical	Theory	Theory
		branch, Maxillary branch,	anatomy in	lectures	exam
18	1	Mandibular branch	local		
			anesthesia		
		Osteology of the maxilla, Osteology	Surgical	Theory	Theory
19	1	of the mandible	anatomy in	lectures	exam
19	1		local		
			anesthesia		
	1	1		l	1





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20	1	The Syringe The Needle The Cartridge Additional Armamentarium Preparation of the Armamentarium	Instruments of local anesthesia	Theory lectures	Theory exam
21	1	Basic injection techniques Techniques of maxillary anesthesia Local infiltration. Posterior superior alveolar nerve block Middle superior alveolar nerve block Anterior superior alveolar nerve block (infraorbital nerve block) Greater palatine nerve block Nasopalatine nerve block Maxillary nerve block	Techniques of local anesthesia	Theory lectures	Theory exam
22	1	Techniques of mandibular anesthesia Inferior alveolar nerve block Buccal nerve block Mandibular nerve block: The Gow-Gates technique Vazirani-Akinosi closed-mouth mandibular block Mental nerve block Incisive nerve block	Techniques of local anesthesia	Theory lectures	Theory exam
23	1	Supplemental injection techniques Intraosseous injection Periodontal ligament injection Intraseptal injection Intrapulpal injection	Techniques of local anesthesia	Theory lectures	Theory exam
24	1	Local Complications Needle breakage Prolonged anesthesia (paresthesia) Facial nerve paralysis Ocular complications Trismus Soft tissue injury Hematoma	Complications of local anesthesia	Theory lectures	Theory exam
25	1	Pain on injection Burning on injection Infection, Edema Sloughing of tissues Postanesthetic intraoral lesions	Complications of local anesthesia	Theory lectures	Theory exam





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2.5		Systemic complications	Complications	Theory	Theory
26	1	Overdose, Allergy	of local	lectures	exam
			anesthesia		
		Computer controlled local	Advances in	Theory	Theory
		anesthetic delivery	local	lectures	exam
		Articaine hydrochloride	anesthesia		
27	1	Local anesthesia reversal			
		Buffering of local anesthetic			
		solution			
		Nasal local anesthetic mist for			
		maxillary nonmolar teeth			
		Sedation techniques: Oral,	Conscious	Theory	Theory
		sublingual, transdermal, intranasal,	sedation	lectures	exam
		intramuscular, intravenous and inhalational			
28	1				
		Nitrous oxide			
		Complications and medicolegal			
		considerations			
		Types of general anesthesia used in	Fundamentals	Theory	Theory
29	1	dentistry	of general	lectures	exam
	_	Advantages, Disadvantages	anesthesia		
		Indications, Contraindications			
		Overview of medical emergencies	Medical	Theory	Theory
		Basic measures, equipment, and	emergencies	lectures	exam
		drugs	during dental		
		Common emergencies: Collapse,	treatment		
30	1	Anaphylaxis, Cardiac arrest,			
		Diabetic collapse due to			
		hypoglycemia			
		Fits and convulsions, Adrenal crisis,			
		Acute severe asthma, Chest pain			
11 0		T 1 '			

11. Course Evaluation

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

12.Learning and Teaching Resources Required textbooks (curricular books, if any) Main references (sources) Recommended books and references (scientific journals, reports...) Electronic References, Websites





1. Course Name: Microbiology 2. Course Code: 303 MICB 3. Semester / Year: Third year 4. Description Preparation Date: 01 March 2024 5. Available Attendance Forms: Theoretical and practical 6. Number of Credit Hours (Total) / Number of Units (Total) Theoretical: 60 hours, practical: 60 hours. Total units: 6 7. Course administrator's name (mention all, if more than one name) Name: Assistant Prof Dr Ghada Kahwaji Email: ghada kahwaji@uomosul edu ig				
2. Course Code: 303 MICB 3. Semester / Year: Third year 4. Description Preparation Date: 01 March 2024 5. Available Attendance Forms: Theoretical and practical 6. Number of Credit Hours (Total) / Number of Units (Total) Theoretical: 60 hours, practical: 60 hours. Total units: 6 7. Course administrator's name (mention all, if more than one name) Name: Assistant Prof Dr Ghada Kahwaji				
303 MICB 3. Semester / Year: Third year 4. Description Preparation Date: 01 March 2024 5. Available Attendance Forms: Theoretical and practical 6. Number of Credit Hours (Total) / Number of Units (Total) Theoretical: 60 hours, practical: 60 hours. Total units: 6 7. Course administrator's name (mention all, if more than one name) Name: Assistant Prof Dr Ghada Kahwaji				
3. Semester / Year: Third year 4. Description Preparation Date: 01 March 2024 5. Available Attendance Forms: Theoretical and practical 6. Number of Credit Hours (Total) / Number of Units (Total) Theoretical: 60 hours, practical: 60 hours. Total units: 6 7. Course administrator's name (mention all, if more than one name) Name: Assistant Prof Dr Ghada Kahwaji				
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7. Course administrator's name (mention all, if more than one name) Name: Assistant Prof Dr Ghada Kahwaji				
Name: Assistant Prof Dr Ghada Kahwaji				
Email: ghada kahwaji@uomosul edu ja				
Email: ghada.kahwaji@uomosul.edu.iq				
8. Course Objectives				
Course - Introduction to microbiology.				
Objectives - Knowledge about the bacteria associated with oral disease.				
- Study different techniques for culturing and bacterial identification.				
- Study human immunity.				
- Knowledge about viruses, types, identification and treatment.				
9. Teaching and Learning Strategies				
Strategy – Theory lectures and practical laboratories.				
 Educational videos and utilization of smart boards. 				
 Use of educational models. 				
 Focused student group discussion. 				





10. C	10. Course Structure					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluat ion method	
1	2	Eukaryotic & Prokaryotic cells Cell structure of prokaryotes Comparison between G+ve & G- ve cell wall	Morphology, Ultra structures, physiology and metabolism of microorganisms	Theory lectures	Theory exam	
2	2	Growth curve Metabolism of microorganisms Molecular biology & bacterial genetics	Microbial growth	Theory lectures	Theory exam	
3	2	-Sterilization and Disinfection	Sterilization	Theory lectures	Theory exam	
4	2	Antibiotic, sources Mode of action of antibiotic Anti-microbial sensitivity tests Bacterial resistance Prophylactic use	Antibiotic and chemotherapy	Theory lectures	Theory exam	
5	2	Non-specific and specific immunity Antigen, Immunoglobulin Humeral and Cellular Immunity	Introduction to general immunology and oral immunology	Theory lectures	Theory exam	
6	2	Complement system Human leukocyte antigen Role of complement and HLA in oral disease	Cells and organs of the immune system	Theory lectures	Theory exam	
7	2	Autoimmunity and immune tolerance	Oral and mucosal immunity	Theory lectures	Theory exam	
8	2	Antimicrobial and immunological defenses of saliva and gingival crevicular fluid components	Hypersensitivity reactions	Theory lectures	Theory exam	
9	2	Symbiosis, Commensalism, Amphibiosis, Antagonistic Sources of infection in hospital and -nosocomial infections Post-operative wound infection, burns infections	Host-parasite relationship & Nosocomial infection	Theory lectures	Theory exam	





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10	2	Pyogenic Streptococci Lancefield group	Streptococci	Theory lectures	Theory
		Pathogenesis of streptococci		lectures	exam
		Epidemiology, treatment and			
		prevention			
		Viridans streptococci			
		Pneumococci			
11	2	Virulence factors and	Staphylococci	Theory	Theory
		pathogenesis		lectures	exam
		Epidemiology, treatment and prevention			
12	2	Vellionella and Moraxella	G-ve diplococcic	Theory	Theory
12	_	Neisseria gonorrhea, N.		lectures	exam
		meningitidis		rectares	CAUIII
13	2	Lactobacilli, Actinomyces and	Lactobacilli	Theory	Theory
		Corynebacterium diphtheriae &		lectures	exam
		Diphtheroids			
14	2	B. subtilis, B. anthracis and	Bacillus	Theory	Theory
		B.ceres		lectures	exam
15	2	C. perfringenis, C. tetani, C.	Clostridium	Theory	Theory
		botulinum, and difficile		lectures	exam
16	2	E.coli, Salmonella, Shigella,	Enterobacteriaceae	Theory	Theory
				lectures	exam
17	2	Enterobacter, Klebsiella, proteus,	Enterobacter	Theory	Theory
		Yersinia		lectures	exam
18	2	Tuberculosis & Leprae	Mycobacteruim	Theory	Theory
				lectures	exam
19	2	Brucella, Haemophilus, Vibirio	Brucella	Theory	Theory
				lectures	exam
20	2	porphyromonas, prevotella,	Aggregatibacter	Theory	Theory
		Bacteroids		lectures	exam
21	2	Fusobacterium, leptotichia	Fusiforms and	Theory	Theory
			Spirochaetes	lectures	exam
22	2	Treponema and oral Treponema	Treponema	Theory	Theory
				lectures	exam
23	2	Mycoplasma, Chlamydia and	Mycoplasma	Theory	Theory
		Rickittsiae		lectures	exam





24	2	Indigenous flora	Ecology of oral	Theory	Theory
		Supplemental flora	flora	lectures	exam
		Transient flora			
		Sources of oral bacteria			
		Factors modulating growth of			
		bacteria in the oral cavity			
25	2	Dental plaque & plaque	Microbiology of	Theory	Theory
		metabolism plaque homeostasis	dental caries	lectures	exam
		Cariogenic microorganisms			
		Mutans Streptococci			
		Lactobacilli and Actinomyces-			
26	2	Antibacterial factors in saliva	Microbial	Theory	Theory
		Vaccination against dental caries	colonization	lectures	exam
27	2	Subgingival microbial complex	Microbiology of	Theory	Theory
		specific, non-specific and	periodontal disease	lectures	exam
		Ecological plaque hypothesis	and Endodontics		
		Porphyromonas, prevotella,			
		Aggregatibacter virulence factors			
		of periodontal pathogens			
		endodontic microbiota and Routes			
		of root canal infection			
		Ecology of endodontic			
		microbiology			
28	2	General structure of viruses	Virology	Theory	Theory
		Classification		lectures	exam
29	2	Isolation & diagnosis	Viral replication	Theory	Theory
		Oral virology		lectures	exam
30	2	Introduction, epidemiology,	Oral mycology and	Theory	Theory
		transmission E.histolotica,	Oral parasitology	lectures	exam
		E.gingivalis, T.tenax, Fungal cells			
		Classification, Candida			
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Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Orientation to the Microbiology laboratory	Experiment	Practical
2	2	The microscope	Experiment	Practical
3	2	Sterilisation and disinfection:	Experiment	Practical
4	2	Bacterial growth	Experiment	Practical
5	2	Types of culture media	Experiment	Practical
6	2	Sampling and transport of test material	Experiment	Practical
7	2	Laboratory cultivation of microorganisms	Experiment	Practical





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8	2	Bacterial identification:1-Macroscopical	Experiment	Practical		
		characteristics (colonial morphology and cultural				
		characteristics).				
9	2	2. Microscopical examination (morphology of	Experiment	Practical		
		bacterial cells).				
10	2	Staining	Experiment	Practical		
11	2	Biochemical tests (part 1).	Experiment	Practical		
12	2	Biochemical tests(part2).	Experiment	Practical		
13	2	Biochemical tests(part3).	Experiment	Practical		
14	2	Antibiotic sensitivity test(part 1).	Experiment	Practical		
15	2	Antibiotic sensitivity test(part 2).	Experiment	Practical		
16	2	Serological tests (antigen and antibody detection	Experiment	Practical		
		tests) (part 1).				
17	2	Serological tests (antigen and antibody detection	Experiment	Practical		
		tests) (part 2).				
18	2	Nucleic acid assays, Animal pathogenicity test	Experiment	Practical		
19	2	Staphylococci	Experiment	Practical		
20	2	Streptococci	Experiment	Practical		
21	2	Corynebacterium	Experiment	Practical		
22	2	Spore-forming Gram-positive bacilli: Bacillus spp.	Experiment	Practical		
23	2	Clostridium spp.	Experiment	Practical		
24	2	Mycobacterium spp.	Experiment	Practical		
25	2	Enterobacteriaceae (part1)	Experiment	Practical		
26	2	Enterobacteriaceae (part2)	Experiment	Practical		
27	2	Enterobacteriaceae(part3)	Experiment	Practical		
28	2	Neisseriae spp.	Experiment	Practical		
29	2	Virology	Experiment	Practical		
30	2	Mycology	Experiment	Practical		
11.Course Evaluation						
Distributing the score out of 100 according to the tasks assigned to the student such						
as daily preparation, daily oral, monthly, or written exams, reports etc						
12.Learning and Teaching Resources						
Required textbooks (curricular books, if						
any)						
Main references (sources)						
	Recommended books and references					
(scien	tific j	ournals, reports)				
Electr	Electronic References, Websites					





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1. Cours	se Name:				
General Pathology					
2. Cours	2. Course Code:				
	304 GPATH				
3. Seme	3. Semester / Year:				
	Third year				
4. Desci	ription Preparation Date:				
	01 March 2024				
5. Avail	able Attendance Forms:				
	Theoretical and practical				
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theoretical:	60 hours, practical: 60 hours. Total units: 6				
7. Cours	7. Course administrator's name (mention all, if more than one name)				
Name: Assistant Prof Dr Shahbaa Khalil					
Email: shah	baa_khal@uomosul.edu.iq				
8. Cours	se Objectives				
Course					
Objectives					
	- Knowledge about the pathology of oral diseases.				
	- Study different pathological conditions.				
	- Causes and prevention of pathological conditions.				
9. Teaching and Learning Strategies					
Strategy	- Theory lectures and practical laboratories.				
	 Educational videos and utilization of smart boards. 				
	- Use of educational models.				
	 Focused student group discussion. 				
10. Course	Structure				





Week	Hr	Required Learning Outcomes	Unit or subject	Learning	Evaluat
			name	method	ion
					method
1	2	Clinical pathology Molecular	Introduction to	Theory	Theory
		pathology	pathology	lectures	exam
	2	Cell damage reversible cell injury	T 1 1 1	771	TPI
2	2	Irreversible cell injury Deposits and pigmentation	Introduction to	Theory	Theory
2	2		pathology	lectures	exam
3	2	External and internal	Introduction to	Theory	Theory
4	2	pigmentation	pathology	lectures	exam
4	2	Acute inflammation	Inflammation	Theory	Theory
	2	C1 : .1 1	T Cl	lectures	exam
5	2	Chronic pathology Chemical mediators	Inflammation	Theory	Theory
	2		TT 1' 1 '	lectures	exam
6	2	Healing of skin wound	Healing and repair	Theory	Theory
			TT 1' 1 '	lectures	exam
7	2	Healing of bone	Healing and repair	Theory	Theory
				lectures	exam
8	2	Hemodynamic Disorders	Hemodynamic Disorders	Theory	Theory
				lectures	exam
9	2	Thromboembolic Disease, and	Hemodynamic	Theory	Theory
		Shock	Disorders	lectures	exam
10	2	Genetics	Genetics	Theory	Theory
				lectures	exam
11	2	Genetics	Genetics	Theory	Theory
				lectures	exam
12	2	Diseases of the Immune System	Immune System	Theory	Theory
		Hypersensitivity		lectures	exam
13	2	Autoimmune diseases	Immune System	Theory	Theory
		Transplantation		lectures	exam
14	2	Neoplasia	Neoplasia	Theory	Theory
				lectures	exam
15	2	Bengin and malignant tumors	Neoplasia	Theory	Theory
				lectures	exam
16	2	Molecular basis of tumors	Neoplasia	Theory	Theory
				lectures	exam
17	2	Bacterial and viral infection	Infections	Theory	Theory
				lectures	exam





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18	2	Environmental and Nutritional	Environmental and	Theory	Theory
		Diseases	Nutritional	lectures	exam
			Diseases		
19	2	Blood Vessels	Blood Vessels	Theory	Theory
				lectures	exam
20	2	The Heart	The Heart	Theory	Theory
				lectures	exam
21	2	Red Blood Cell and Bleeding	Red Blood Cell	Theory	Theory
		Disorders		lectures	exam
22	2	Diseases of White Blood Cells	White Blood Cells	Theory	Theory
				lectures	exam
23	2	Diseases of G.I.T.	G.I.T.	Theory	Theory
				lectures	exam
24	2	Diseases of G.I.T.	G.I.T.	Theory	Theory
				lectures	exam
25	2	Diseases of liver	Liver	Theory	Theory
				lectures	exam
26	2	Pancreas and gall bladder	Pancreas	Theory	Theory
				lectures	exam
27	2	Diseases of respiratory system	Respiratory system	Theory	Theory
				lectures	exam
28	2	Bone diseases	Bone diseases	Theory	Theory
				lectures	exam
29	2	Kidney	Kidney	Theory	Theory
				lectures	exam
30	2	Urinary system	Urinary system	Theory	Theory
				lectures	exam
				lectures	exam

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

12.Learning and Teaching Resources Required textbooks (curricular books, if any) Main references (sources) Recommended books and references (scientific journals, reports...) Electronic References, Websites





1.	Cour	se Name:					
	Pharmacology						
2.	Cour	se Code:					
	~		PHAR				
3.	Seme	ester / Year:					
			d year				
4.	Desc	ription Preparation Date:					
			ch 2024				
5.	Avail	lable Attendance Forms:					
			and practical	4)			
		ber of Credit Hours (Total) / Nu		cal)			
		: 60 hours, practical: 60 hours.		`			
		se administrator's name (mentio	on all, if more than	one name)	_		
		Dr Jaunaa Khalid					
		naakhalid@uomosul.edu.iq					
		se Objectives					
Cours		- Introduction to pharmacolo					
Objec	tives	•					
		- Study different pharmacoki	-	_			
		- Study chemical structure ar	nd mode of actions	of medicines			
9.	Teacl	hing and Learning Strategies					
Strate	gy	- Theory lectures and practices	ctical laboratories.				
		 Educational videos and 	utilization of smart	boards.			
		 Use of educational mod 	els.				
		 Focused student group of 	discussion.				
1.0							
		Structure					
Week	Hr	Required Learning Outcomes	Unit or subject	Learning method	Evaluat ion		
			пашс	memou	method		
1	2	Pharmacology: General concepts	Introduction	Theory	Theory		
1	I		I	1 -	1		

lectures

exam





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2	2	Pharmacokinetics and	Pharmacokinetics	Theory	Theory
		pharmacodynamics		lectures	exam
3	2	Autonomic nervous system from a	Autonomic nervous	Theory	Theory
		pharmacological perspective	system	lectures	exam
		(including cholinergic agonist and			
		antagonist)			
4	2	Adrenergic agonists	Adrenergic	Theory	Theory
			agonists	lectures	exam
5	2	Adrenergic antagonists	Adrenergic	Theory	Theory
			antagonists	lectures	exam
6	2	Antihypertensive drugs	Antihypertensive	Theory	Theory
			drugs	lectures	exam
7	2	Management of angina and heart	Angina and heart	Theory	Theory
		failure	failure	lectures	exam
8	2	Management of arrhythmia	Arrhythmia	Theory	Theory
				lectures	exam
9	2	Anticoagulants, antiplatelet and	Anticoagulants	Theory	Theory
		anti-hyperlipidemic drugs		lectures	exam
10	2	Introduction the pharmacology of	CNS drugs	Theory	Theory
		CNS drugs, sedative, hypnotics and antiseizures drugs		lectures	exam
11	2	Antipsychotic and antidepressant	Antipsychotic and	Theory	Theory
		drugs	antidepressant	lectures	exam
12	2	Local and general anesthetics	Anassthesia	Theory	Theory
				lectures	exam
13	2	Drug of abuse and opioid	Opioid analgesics	Theory	Theory
		analgesics		lectures	exam
14	2	Managements of diabetes mellitus	Diabetes mellitus	Theory	Theory
				lectures	exam
15	2	Drugs affecting GIT	G.I.T.	Theory	Theory
				lectures	exam
16	2	Drugs acting on respiratory	Respiratory system	Theory	Theory
		system (antihistamines and corticosteroids)		lectures	exam
17	2	Non-steroidal anti-inflammatory	NSAIDs	Theory	Theory
		drugs (NSAIDs), part 1		lectures	exam
18	2	Non-steroidal anti-inflammatory	NSAIDs	Theory	Theory
		drugs (NSAIDs) part2 and Steriods in Dentistry		lectures	exam
19	2	Chemotherapeutic drugs	Chemotherapeutic	Theory	Theory
			drugs	lectures	exam





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

12.Learning and Teaching Resources Required textbooks (curricular books, if any) Main references (sources) Recommended books and references (scientific journals, reports...) Electronic References, Websites





			escription 1 of				
1.	Cour	se Name:					
	Preclinical Operative Dentistry						
2.	Cour	se Code:					
			306 PCOD				
3.	Seme	ester / Year:					
			Third year				
4.	Desc	ription Preparation Date:					
			March 2024				
5.	Avail	able Attendance Forms:					
		Theore	tical and practica	al			
6.	Num	ber of Credit Hours (Total)	/ Number of Un	nits (Total)			
Theore	etical	: 30 hours, practical: 60 ho	urs. Total units:	4			
7.	Cour	se administrator's name (m	ention all, if mor	re than one nam	ne)		
Name:	Assi	stant Lecturer Mohammed	Abduladhim				
Email:	rayy	analmallah@uomosul.edu.	iq				
8.	Cour	se Objectives					
Cours	e	- Introduction to operati	ve dentistry.				
Object	tives	- Study the principles of	cavity preparati	on.			
		- Study different types o	_	chniques and m	aterials.		
		- Introduction to crown	and bridge.				
9.	Teacl	ning and Learning Strategic	es				
Strate	gy	- Theory lectures and	d practical labora	itories.			
		 Educational videos 	and utilization of	of smart boards.			
		 Use of educational 	models.				
		 Focused student gro 	oup discussion.				
10. Co	ourse	Structure					
Week	Hr	Required Learning	Unit or subject	Learning	Evaluation		
		Outcomes	name	method	method		
1	1	Definition of operative	Introduction	Theory lectures	Theory exam		

dentistry





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2	1	Definition of operative dentistry	Introduction	Theory lectures	Theory exam
3	1	Instruments and general instrumentation of cavity preparation	Instruments	Theory lectures	Theory exam
4	1	Instruments and general instrumentation of cavity preparation	Instruments	Theory lectures	Theory exam
5	1	Sterilization of operative instruments	Sterilization	Theory lectures	Theory exam
6	1	Sterilization of operative instruments	Sterilization	Theory lectures	Theory exam
7	1	Amalgam cavity preparations for class I	Amalgam cavity	Theory lectures	Theory exam
8	1	Amalgam cavity preparations for class I	Amalgam cavity	Theory lectures	Theory exam
9	1	Amalgam cavity preparations for class II	Amalgam cavity	Theory lectures	Theory exam
10	1	Amalgam cavity preparations for class II	Amalgam cavity	Theory lectures	Theory exam
11	1	Amalgam cavity preparations for class II (MOD)	Amalgam cavity	Theory lectures	Theory exam
12	1	Amalgam cavity preparations for class II (MOD)	Amalgam cavity	Theory lectures	Theory exam
13	1	Amalgam cavity preparations for class III and class V	Amalgam cavity	Theory lectures	Theory exam
14	1	Amalgam cavity preparations for class III and class V	Amalgam cavity	Theory lectures	Theory exam
15	1	Cavity liners and cement bases (part 1)	Cavity liners	Theory lectures	Theory exam
16	1	Cavity liners and cement bases (part 1)	Cavity liners	Theory lectures	Theory exam
17	1	Cavity liners and cement bases (part 2)	Cement bases	Theory lectures	Theory exam
18	1	Cavity liners and cement bases (part 2)	Cement bases	Theory lectures	Theory exam
19	1	Dental amalgam alloys (material)	Amalgam alloys	Theory lectures	Theory exam
20	1	Dental amalgam alloys (material)	Amalgam alloys	Theory lectures	Theory exam





21	1	Complex amalgam restoration	Complex restoration	Theory lectures	Theory exam
22	1	Complex amalgam restoration	Complex restoration	Theory lectures	Theory exam
23	1	Failures in amalgam restorations	Failures	Theory lectures	Theory exam
24	1	Failures in amalgam restorations	Failures	Theory lectures	Theory exam
25	1	Tooth colored restorations (composite)	Composites	Theory lectures	Theory exam
26	1	Tooth colored restorations (composite)	Composites	Theory lectures	Theory exam
27	1	Cavity preparation for anterior restorations	Anterior restorations	Theory lectures	Theory exam
28	1	Cavity preparation for anterior restorations	Anterior restorations	Theory lectures	Theory exam
29	1	Resin material	Resin material	Theory lectures	Theory exam
30	1	Resin material	Resin material	Theory lectures	Theory exam

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

12.Learning and Teaching Resources Required textbooks (curricular books, if any) Main references (sources) Recommended books and references (scientific journals, reports...) Electronic References, Websites





	r · · · · · · · · · · · · · · · · · · ·					
1. Cour	se Name:					
	Community Dentistry					
2. Cour	se Code:					
-	307 COMD					
3. Seme	ester / Year:					
	Third year					
4. Desc	ription Preparation Date:					
	01 March 2024					
5. Avail	lable Attendance Forms:					
	Theoretical and practical					
	ber of Credit Hours (Total) / Number of Units (Total)					
	: 30 hours, practical: 60 hours. Total units: 4					
	se administrator's name (mention all, if more than one name)					
	turer Reem Raad					
	n_raad@uomosul.edu.iq					
	se Objectives					
Course	- Introduction to community dentistry and public health.					
Objectives	- Study the epidemiology and experimental studies.					
	- Study the dental indices of dental caries and periodontal disease.					
	- Introduction to biostatistics.					
9. Teacl	hing and Learning Strategies					
Strategy	- Theory lectures and practical laboratories.					
	 Educational videos and utilization of smart boards. 					
	- Use of educational models.					
	- Focused student group discussion.					





10. C	10. Course Structure						
Week	Hr	Required Learning Outcomes	Unit or	Learning	Evaluatio		
		1	subject name	method	n method		
1	1	Dental public health	Introduction	Theory	Theory		
		Public health and Dental Public		lectures	exam		
		health definition.					
		Community Dentistry.					
		Dental public health practitioners.					
		Public health impact of dental disease.					
		Tools of dental public health:					
		Epidemiology, Biostatistics, Social					
		sciences, Principles of					
		administration, Preventive dentistry.					
2	1	Steps in planning dental care for the	Dental public	Theory	Theory		
		patient	care	lectures	exam		
		Steps in planning dental care for the					
		community					
		Similarities between personal and					
		community health care:					
		Differences between private dental practice and public health dentistry					
3	1	Objectives of epidemiology.	Epidemiology	Theory	Theory		
	1	Components of epidemiological		lectures	exam		
		study.		10014105	O A CATA		
		Essential steps in an epidemiological					
		study.					
		Hypothesis.					
		Population at risk.					
		Morbidity. Measurements of disease frequency.					
		Epidemiological approach.					
		Measurement tools in epidemiology.					
4	1	Types of Epidemiological studies:	Epidemiologic	Theory	Theory		
		Observational studies	al studies	lectures	exam		
		Types of observational studies,					
		Descriptive studies, Analytical					
		studies, Case control studies Cohort					
	1	studies, Ecological studies.	T 1	TT1	701		
5	1	Intervention	Experimental	Theory	Theory		
		Types of experimental studies	studies	lectures	exam		





6	1	Definition of dental caries	Epidemiology	Theory	Theory
		Epidemiology	of dental caries	lectures	exam
		Etiological factors of dental caries			
		Types of dental caries according to their anatomical (location) site.			
		Factors affecting epidemiology of			
		dental caries			
7	1	Periodontal Diseases definition	Epidemiology	Theory	Theory
		Structure of the periodontal tissues	of Periodontal	lectures	exam
		Epidemiology	Disease		
		Etiology of periodontal disease	D 11 11		
8	1	Types of cancers	Epidemiology	Theory	Theory
		Etiology of oral cancer Constituents of tobacco smoke	of Oral Cancer	lectures	exam
		Potentially malignant lesions			
		Levels of prevention for oral cancer			
		Rehabilitation after Oral Cancer			
9	1	Index	Dental indices	Theory	Theory
		Uses of dental index		lectures	exam
		Classification of indices			
10	1	Indices used for assessment of dental	Dental caries	Theory	Theory
		caries	indices	lectures	exam
		DMF index, Principles in recording DMF index			
		Calculation of DMFT/DMFS			
		Dental caries severity index			
		DMF index			
11	1	Oral Hygiene Indices:	Periodontal	Theory	Theory
		Gingival inflammation indices	disease indices	lectures	exam
		Periodontal indices			
12	1	Indices for assessment of dental	Dental	Theory	Theory
		fluorosis	fluorosis	lectures	exam
13	1	Data, Types of data	Biostatistics	Theory	Theory
		Methods of Data Collection		lectures	exam
		Sampling Technique			
		Types of sample design			
14	1	Methods of data presentation	Data	Theory	Theory
		The tabulation of data.	presentation	lectures	exam
		The graphical representation of data	G 1	TEM .	
15	1	Measures of central tendency	Central	Theory	Theory
		Measures of dispersion.	tendency and	lectures	exam
			dispersion		





16	1	Fluoridation as a public health	Fluoridation	Theory	Theory
		measure		lectures	exam
		History: Sources of Fluoride, Water			
		fluoridation, Types of fluoride			
17	1	Fluoridation Mechanism and Effects	Fluoridation	Theory	Theory
		Mechanism of action, Anti-caries		lectures	exam
		effects of fluoride. Metabolism of			
		fluoride, Dental Fluorosis, Side			
		effects of fluoride			
18	1	Major occupational hazards in	Occupational	Theory	Theory
		dentistry	hazards	lectures	exam
		Biological health hazards.			
		Physical hazards, Chemical hazards,			
		Musculoskeletal disorders and			
		diseases of the peripheral nervous			
		system			
		Hearing loss			
		Radiation exposure			
		Stress, Legal hazards			
		Other risks			
19	1	Environment and health	Environment	Theory	Theory
		Environment		lectures	exam
		Physical environment:			
		Biological environment:			
		Psychological environment			
		Environmental indicators			
20	1	Effects of air pollution on health	Air pollution	Theory	Theory
		Prevention and control of air		lectures	exam
		pollution			
		Effects of radiation			
21	1	Noise pollution	C.1 1 D 1	TT1	771
21	1	Purpose of School Health Program	School Dental	Theory	Theory
		Guidelines for an ideal school dental	Health	lectures	exam
		program School dental survey	Program		
		School dental survey			
22	1	phases in school oral health program Categories of need	Treatment	Theemy	Theory
22		Demands	need and	Theory	Theory
		Factors affecting dental demands	demand need	lectures	exam
		1 actors affecting dental demands	demand need		
23	1	Manpower definition	Dental	Theomy	Theomy
23	1	Dental health manpower planning		Theory	Theory
		Steps in dental health manpower	manpower	lectures	exam
		planning			
		praining			





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24	1	Definition of ethics	Ethics in	Theory	Theory
		Dentistry as a profession	dentistry	lectures	exam
		Ethical principles			
25	1	The main oral effects of aging	Oral health	Theory	Theory
		Pregnant women	care for special	lectures	exam
		Special Care Dentistry	populations		
		Patients with special health care			
26	1	Application of forensic dentistry.	Forensic	Theory	Theory
		Bite marks, Person identification.	dentistry	lectures	exam
		Dental identification.			
27	1	Introduction, Dental auxiliary	Dental	Theory	Theory
		classification.	auxiliary	lectures	exam
		Non operatory auxiliary.	personnel		
		Operatory auxiliary, Four handed			
		relationship.			
28	1	Introduction, Elements (components)	Primary health	Theory	Theory
		of Primary health care.	care and	lectures	exam
		Principles of Primary health care.	Primary dental		
		Primary dental health care.	health care		
		Community dental health services.			
29	1	Introduction, Concept of disease	Infection	Theory	Theory
		transmission.	control	lectures	exam
		The acquisition means of pathogens.			
		Transmission of infectious diseases.			
		Control of infectious diseases.			
		Personal barrier techniques.			
2.0		Instrument processing (sterilization).	5 11 11	-	
30	1	Introduction, Aims of health	Dental health	Theory	Theory
		education.	education	lectures	exam
		Objective of health education.,			
		Objective of dental health education.			
		Principle of health education.			
		Planning a health education.			

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

12.Learning and Teaching Resources Required textbooks (curricular books, if any) Main references (sources) Recommended books and references (scientific journals, reports...) Electronic References, Websites





	T				
1. Cour	se Name:				
	Dental Radiology				
2. Cour	2. Course Code:				
• •	308 DRAD				
3. Seme	ester / Year:				
4 7	Third year				
4. Desc	ription Preparation Date:				
	01 March 2024				
5. Avai.	lable Attendance Forms:				
	Theoretical and practical				
	ber of Credit Hours (Total) / Number of Units (Total)				
	: 30 hours, practical: 60 hours. Total units: 4				
	se administrator's name (mention all, if more than one name)				
Name: Lect	turer Dr Shahrazad Sami				
Email: shah	razadsaeed@uomosul.edu.iq				
8. Cour	se Objectives				
Course	- Introduction to dental radiography.				
Objectives	- Study the principle of x-ray generation.				
	- Study dental practices and radiographical techniques.				
	- Practical hand-on on dental radiography.				
9. Teacl	hing and Learning Strategies				
Strategy	- Theory lectures and practical laboratories.				
	 Educational videos and utilization of smart boards. 				
	- Use of educational models.				
	 Focused student group discussion. 				
	- Focused student group discussion.				





10. C	0. Course Structure				
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Physics of radiation Introduction and definitions of nature of radiation, type of radiation.	Introduction	Theory lectures	Theory exam
2	1	Production of radiation: x-ray machine, interaction of x-ray with matter, composition of matter	Principles of x-ray	Theory lectures	Theory exam
3	1	Film imaging: types of x-ray films, processing cycle, dark room, intensifying screen	Film imaging	Theory lectures	Theory exam
4	1	Factors controlling x-ray beam, dosimetry and invers square low	x-ray beam	Theory lectures	Theory exam
5	1	Projection geometry Sharpness, distortion, image characteristic and artifacts.	Projections	Theory lectures	Theory exam
6	1	Biological effects of radiation; direct & indirect effects, determistic and stochastic effect	Biological effects of radiation	Theory lectures	Theory exam
7	1	Safety and Protection Source of exposure, dose limits, exposure and risk and reducing dental exposure	Safety and Protection	Theory lectures	Theory exam
8	1	Intraoral projection Periapical, bitewing, and occlusal radiography)	Intraoral projection	Theory lectures	Theory exam
9	1	Digital radiography Strength, limitations, comparing with conventional radiography and indications	Digital radiography	Theory lectures	Theory exam
10	1	Patient's management Management of child, contrast media & localization technique	Patient's management	Theory lectures	Theory exam





11	1	Cephalometric imaging technique, indications, evaluation of the Image	Cephalometric imaging	Theory lectures	Theory exam
12	1	Panoramic radiography Principles, techniques, position and interpretation.	Panoramic radiography	Theory lectures	Theory exam
13	1	Craniofacial imaging: types, indication and interpretation	Craniofacial imaging	Theory lectures	Theory exam
14	1	Principles, components, strength and limitations.	CBCT	Theory lectures	Theory exam
15	1	Clinical applications in maxillofacial region, anatomy and interpretations.	CBCT	Theory lectures	Theory exam
16	1	Part1: teeth, supporting dento-alveolar structures, maxilla and mid facial bones.	Radiographic anatomy	Theory lectures	Theory exam
17	1	Part 2: mandible, TMJ, base of skull, air way, restorative materials.	Radiographic anatomy	Theory lectures	Theory exam
18	1	CT, MRI and ULTRASOUND	Advanced imaging	Theory lectures	Theory exam
19	1	Radiography & Implantology (modalities, indications)	Radiography & Implantology	Theory lectures	Theory exam
20	1	Infection control in radiography clinic, protection of patients, protection of workers.	Infection control	Theory lectures	Theory exam
21	1	Radiologic examination and guide lines for ordering imaging.	Prescribing diagnostic imaging	Theory lectures	Theory exam
22	1	Radiographical interpretations of common diseases: interpretation of dental caries, and periodontal disease	Radiographical interpretations	Theory lectures	Theory exam
23	1	Cysts of the jaw: odontogenic and non odontogenic cysts.	Cysts of the jaw	Theory lectures	Theory exam
24	1	Dental anomalies (acquired and developmental)	Dental anomalies	Theory lectures	Theory exam





25	1	Inflammatory conditions of the jaws (periapical inf disease, osteomylitis, pericoronitis)	Inflammatory conditions	Theory lectures	Theory exam
26	1	Trauma (dento alveolar trauma, dental fractures and bone fractures.	Trauma	Theory lectures	Theory exam
27	1	TMJ abnormalities (anatomy of TMJ, application)	TMJ abnormalities	Theory lectures	Theory exam
28	1	Salivary gland disease (imaging modalities, interpretation)	Salivary gland	Theory lectures	Theory exam
29	1	Craniofacial anomalies (Cleft lip and palate)	Craniofacial anomalies	Theory lectures	Theory exam
30	1	Computed tomography (indications ,strength, limitations)	Computed tomography	Theory lectures	Theory exam

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

12.Learning and Teaching Resources	3
Required textbooks (curricular	
books, if any)	
Main references (sources)	
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	





1.	Cour	se Name:			
		Preclinical	Fixed Prosthodo	ontics	
2.	Cour	se Code:			
			309 PFP		
3.	Seme	ester / Year:			
			Third year		
4.	Desc	ription Preparation Date:			
			March 2024		
5.	Avail	lable Attendance Forms:			
			tical and practica		
		ber of Credit Hours (Total)			
		: 30 hours, practical: 60 ho			
		se administrator's name (m		re than one nam	ne)
		t Lecturer Amjad Loqman	Shehab		
		amjad@uomosul.edu.iq			
		se Objectives	.1 1 .:		
Cours		- Introduction to fixed p			
Objec	uves	• • •	-		
		Study teeth preparationPractical hand-on on to	-	ed prosmodom	108.
		- Fractical Halld-off off to	eem preparation.		
9.	Teacl	hing and Learning Strategic	es		
Strate	gy	- Theory lectures and	d practical labora	itories.	
		 Educational videos 	and utilization of	of smart boards.	
		 Use of educational 			
		 Focused student great 	oup discussion.		
10. Co	ourse	Structure			
Week	Hr	Required Learning	Unit or subject	Learning	Evaluation
		Outcomes	name	method	method
1	1	Definitions	Introduction	Theory lectures	Theory exam
•	•				





2	1	Definitions	Introduction	Theory lectures	Theory exam
3	1	Definitions	Introduction	Theory lectures	Theory exam
4	1	Biomechanical principles of tooth preparation:	Biomechanical principles	Theory lectures	Theory exam
5	1	Biomechanical principles of tooth preparation:	Biomechanical principles	Theory lectures	Theory exam
6	1	Biomechanical principles of tooth preparation:	Biomechanical principles	Theory lectures	Theory exam
7	1	Full metal crown	Metal crown	Theory lectures	Theory exam
8	1	Full metal crown	Metal crown	Theory lectures	Theory exam
9	1	Porcelain fused to metal crown	Fused porcelain	Theory lectures	Theory exam
10	1	Porcelain fused to metal crown	Fused porcelain	Theory lectures	Theory exam
11	1	Complete ceramic crown (Porcelain Jacket Crown)	Ceramic crown	Theory lectures	Theory exam
12	1	Complete ceramic crown (Porcelain Jacket Crown)	Ceramic crown	Theory lectures	Theory exam
13	1	Partial veneer crown (three-quarter crown)	Veneer	Theory lectures	Theory exam
14	1	Partial veneer crown (three-quarter crown)	Veneer	Theory lectures	Theory exam
15	1	Post crown	Post crown	Theory lectures	Theory exam
16	1	Post crown	Post crown	Theory lectures	Theory exam
17	1	Impression for crown and bridge work	Impression	Theory lectures	Theory exam
18	1	Impression for crown and bridge work	Impression	Theory lectures	Theory exam
19	1	Provisional restoration	Provisional restoration	Theory lectures	Theory exam
20	1	Provisional restoration	Provisional restoration	Theory lectures	Theory exam
21	1	Working cast and dies	Cast and dies	Theory lectures	Theory exam
22	1	Working cast and dies	Cast and dies	Theory lectures	Theory exam
23	1	Waxing, investing, casting	Waxing and investing	Theory lectures	Theory exam
24	1	Waxing, investing, casting	Casting	Theory lectures	Theory exam
25	1	Finishing of the casting and clinical try-in	Finishing	Theory lectures	Theory exam
26	1	Finishing of the casting and clinical try-in	Finishing	Theory lectures	Theory exam





27	1	Cementation	Cementation	Theory lectures	Theory exam
28	1	Cementation	Cementation	Theory lectures	Theory exam
29	1	CAD /CAM Technology for	CAD/CAM	Theory lectures	Theory exam
		crown construction			
30	1	CAD /CAM Technology for	CAD/CAM	Theory lectures	Theory exam
		crown construction			

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

as daily preparation, daily oral, monthly, or written exams, reports etc					
12.Learning and Teaching Resources					
Required textbooks (curricular					
books, if any)					
Main references (sources)					
Recommended books and references					
(scientific journals, reports)					
Electronic References, Websites					





1. Cours	1. Course Name:				
	Dental Ethics				
2. Cour	2. Course Code:				
	310 DETH				
3. Seme	ester / Year:				
	Third year				
4. Descr	ription Preparation Date:				
	01 March 2024				
5. Avail	lable Attendance Forms:				
	Theoretical and practical				
6. Num	ber of Credit Hours (Total) / Number of Units (Total)				
Theoretical	: 30 hours, practical: N/A. Total units: 2				
	se administrator's name (mention all, if more than one name)				
Name: Assi	stant Prof Dr Manar Muthafar Al-Nema				
Email: man	aralnema@uomosul.edu.iq				
8. Cour	se Objectives				
Course	- Introduction to dental ethics.				
Objectives					
	- Study the principle dental ethics in treatment.				
	- Study dental ethics for geriatric patients.				
9. Teacl	hing and Learning Strategies				
Strategy					
	 Theory lectures and practical laboratories. 				
	 Educational videos and utilization of smart boards. 				
	 Use of educational models. 				
	 Focused student group discussion. 				





10. C	ourse	Structure			
Week	Hr	Required Learning Outcomes	Unit or subject	Learning	Evaluation
			name	method	method
1	1	What is meant by "ethics? Why are ethics important? Evolution and philosophy of ethics The terms moral and ethical,	Professional Ethics Review	Theory lectures	Theory exam
2	1	obligation and principle Dental ethics, professionalism, Human Rights and Law What is a "profession?" What is a "professional?" What is "professionalism?" Dentistry as a Profession Dentistry: The Commercial Picture Dentistry: The Normative Picture The Content of Professional Obligations	Professional Ethics Review	Theory	Theory exam
3	1	What is meant by the "best interests" of our patients? What is "paternalism?" Is good risk management good ethics? What about compromising quality?	Professional Ethics Review	Theory lectures	Theory exam
4	1	What are codes of ethics? Should I care more about being legal or being ethical? Do we really have obligations to patients? Can dentistry be both a business and a profession?	Professional Ethics Review	Theory lectures	Theory exam
5	1	What's special about Dentistry? What's special about dental ethics? Who decides what is ethical? Does dental ethics change? Does dental ethics differ from one country to another?	Principal Features of Dental Ethics	Theory lectures	Theory exam





6	1	The role of the FDI	Principal Features	Theory	Theory
		How does the FDI decide what	of Dental Ethics	lectures	exam
		is ethical?			
		How do individuals decide what is ethical? How do individuals			
		decide what is ethical?			
7	1	History and basic ethical theory	Ethical Law and	Theory	Theory
		History of medical ethics	ethical Theories	lectures	exam
		Hammurabi's code of law		10000100	
		ippocratic oath			
		Basic grounding of Ethics			
		Humanities (universal standards)			
	1	Religious& nonreligious:	Data transfer	7731	701
8	1	Political& dogmatic strategies of	Ethical Law and	Theory	Theory
		the state Other groundings of Ethics (theories of ethics):	ethical Theories	lectures	exam
		Action theory:			
		Consequentiality theory:			
		Value theory (why theory):			
		Ethics and the law			
		Sources of Ethical Views and			
		Convictions			
9	1	Patient autonomy	Fundamental	Theory	Theory
		Non-maleficence	Principles of	lectures	exam
			dental ethics		
10	1	Beneficence	Fundamental	Theory	Theory
		Justice	Principles of	lectures	exam
		Veracity	dental ethics		
11	1	Duties and obligation of dentists	Duties and	Theory	Theory
		in general	obligation of	lectures	exam
10			dentists	T.	TO 1
12	1	Duties and obligation of dentists	Duties and	Theory	Theory
		in general	obligation of dentists	lectures	exam
13	1	The Ideal Relationship between	Duties and	Theory	Theory
13	1	Dentist and Patient	obligation of	lectures	
		Duties and obligation of dentists	dentists	10010108	exam
		toward their patients	uenusis		
14	1	The dentist-patient relationship	Duties and	Theory	Theory
		Four models of the dentist-	obligation of	lectures	exam
		patient relationship: The Guild	dentists		
		Model. The Agent Model			
		The Commercial Model			
		The Interactive Model			





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15	1	Duties and obligation of dentists towards the public and the paramedical profession The Relationship between Dentistry and the Larger Community	Duties and obligation of dentists	Theory lectures	Theory exam
16	1	Duties of dental surgeons and specialists in consultations	Duties and obligation of dentists	Theory lectures	Theory exam
17	1	Responsibilities of dental surgeons to one another Ideal Relationships between Coprofessionals	Duties and obligation of dentists	Theory lectures	Theory exam
18	1	Ethical Issues in Dental Practice Ethical Questions and Legal Questions Choosing to Re-ethical Published Codes of Conduct and Ethics Committees	Ethical issues and challenges in dental practice	Theory lectures	Theory exam
19	1	Examples of ethical issues and challenges Access to dental care Abuse of prescriptions by patients, advertising, emergency care, financial arrangements, disclosure and misrepresentation, child abuse	Ethical issues and challenges in dental practice	Theory lectures	Theory exam
20	1	Competence and judgment confidentiality Dating patients Delegation of duties Digital communication and social media Harassment Consent	Ethical issues and challenges in dental practice	Theory lectures	Theory exam
21	1	Patients with compromised capacity Treatment decisions for patients with compromised capacity The role of parents and legal guardians The capacity for autonomous decision making. Dealing with patients with partially compromised capacity	Ethical issues and challenges in dental practice	Theory lectures	Theory exam





22	1	G G. t C. t	TP1 ·	TP1	TI
22	1	Conflict of interest	The impact of	Theory	Theory
		Personal interest versus patient	business on	lectures	exam
		interest	dentistry		
		Public versus patient interest			
		Third-party interests			
		Professional versus business			
		ethics			
23	1	Importance of dental research	Ethics and dental	Theory	Theory
		Research in dental practice.	research	lectures	exam
24	1	Ethical requirements	Ethics and dental	Theory	Theory
		Ethics review committee	research	lectures	exam
		approval	research	icciaics	CAdili
25	1	Scientific Merit	Ethics and dental	Theory	Theory
		Social Value	research	lectures	exam
		Risks and Benefits		rectures	CAUIII
		Informed Consent			
26	1	Confidentiality	Ethics and dental	Theory	Theory
		Conflict of Roles	research	lectures	exam
		Honest Reporting of Results:		icetares	CAUIII
27	1	Who determines how a dentist	The standard of	Theory	Theory
		should behave?	care	lectures	exam
		A local or a global standard of	care	rectures	CAUIII
		care?			
		Transparency of care,			
		guidelines, and protocols.			
		Shared decision-making,			
		evidence informed decision			
		making, and evidence-guided			
		Individualization and the			
		standard of care based on a long-			
		term goal for dental treatment.			
28	1	Difficult Professional-Ethical	Ethical Decision	Theory	Theory
		Judgments	Making and	lectures	exam
		A Model of Professional-Ethical	Conflicting		
		Decision Making Conflicting	Obligations		
		Professional Obligations			
		Conflicts Between Professional			
		and Other Obligations			
		Conscientious Disobedience of			
		Professional			
		Obligations			





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29	1	The Central Values of Dental	Studying a	Theory	Theory
		Practice The Patient's Life and	Profession's	lectures	exam
		General Health The Patient's	Central Values		
		Oral Health			
		The Patient's Autonomy			
		The Dentist's Preferred Patterns			
		of Practice Aesthetic Values			
		Efficiency in the Use of			
		Resources Ranking Dentistry's			
		Central Values Thinking about			
30	1	the Case Does the duty to treat depend on	The duty to treat	Thoomy	Theomy
30	1	a prior relationship between	The duty to treat	Theory	Theory
		dentist and patient?		lectures	exam
		The duty to treat: Patients of			
		record versus prior unknown			
		patients.			
		Requested treatment and the			
		duty to treat			
		Duty to treat and the			
		characteristics of the patient who			
		seeks help			
		Is a dentist obliged to accept a			
		patient as a patient of record?			
		Terminating the relationship			
		with a patient of record			
11.C	ourse	Evaluation			
Distrib	outing	the score out of 100 according	g to the tasks assig	gned to the	student such
as dail	y pre	paration, daily oral, monthly, o	or written exams,	reports e	etc
12.Le	earnii	ng and Teaching Resources			
Requir	ed te	extbooks (curricular books, if			
any)					
Main r	efere	ences (sources)			
	_				

Recommended books and references

(scientific journals, reports...)

Electronic References, Websites





Course Description – Fourth year Course Description Form

1. Cours	se Name:			
Periodontics				
2. Cour	se Code:			
	401 PERI			
3. Seme	ester / Year:			
	Fourth year			
4. Descr	ription Preparation Date:			
	01 March 2024			
5. Avail	able Attendance Forms:			
	Theoretical and practical			
6. Num	ber of Credit Hours (Total) / Number of Units (Total)			
Theoretical	30 hours, practical: 90 hours. Total units: 5			
7. Cours	se administrator's name (mention all, if more than one name)			
Name: Lect	urer Dr Gayath Abdulbarry Al-Jawadi			
Email: ghay	vathaljawady@uomosul.edu.iq			
8. Cour	se Objectives			
Course	- Introduction to periodontics.			
Objectives	- Study the aitiology of periodontal disease.			
	- Study the principle of hand instruments, grasping and support.			
	- Study the principles of manual scaling and polishing.			
9. Teacl	ning and Learning Strategies			
Strategy	- Theory lectures and practical laboratories.			
	 Educational videos and utilization of smart boards. 			
	- Use of educational models.			
	 Focused student group discussion. 			
	1 ocused student group discussion.			





10. C	10. Course Structure						
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method		
1	1	Terms & definitions frequently used in periodontology	Definitions	Theory lectures	Theory exam		
2	1	Anatomy of the periodontium	Anatomy	Theory lectures	Theory exam		
3	1	Oral mucosa: Gingiva Macroscopic features: Marginal gingiva, Attached gingiva, Interdental papilla. Microscopic features: Oral epithelium, Sulcular epithelium, Junctional epithelium, Epithelial connective tissue interface. Gingival connective tissue (gingival fibers and cellular elements) Gingival sulcus and gingival crevicular fluid Blood Supply, Lymphatics, and Nerves Clinical features of gingiva in health and diseased gingiva: Color, Physiologic pigmentation, Size, Contour, Shape, Consistency, Texture, Position	Oral mucosa: Gingiva	Theory lectures	Theory exam		
4	1	Periodontal ligaments (PDL) Cellular elements Ground substance Development of principal fibers of PDL Functions of periodontal ligaments: Physical functions, Formative and Remodeling Function, Nutritional and sensory functions. Clinical consideration	Periodontal ligaments	Theory lectures	Theory exam		





5	1	Cementum: Definition	Anatomy of the	Theory	Theory
		Function of cementum	periodontium	lectures	exam
		Classification of cementum:			
		Acellular afibrillar cementum,			
		Acellular extrinsic fiber			
		cementum, Cellular mixed			
		stratified cementum, Cellular			
		intrinsic fiber cementum			
		Development and mineralization			
		of cementum			
		Cementoenamel junction			
		Cementodentinal junction			
		Thickness of Cementum in			
		response to physiologic and			
		pathologic conditions, Normal			
		thickness			
		Cemental aplasia,			
		Hypercementosis, Ankylosis			
		neoplastic and nonneoplastic			
6	1	Alveolar process: Definition,	Anatomy of the	Theory	Theory
		Function of alveolar process,	periodontium	lectures	exam
		Parts of the alveolar process,			
		Alveolar bone proper, An			
		external plate of cortical bone			
		Cancellous trabeculae or spongy			
		bone			
		Basal bone			
		Anatomic division of the			
		alveolar process: Interproximal			
		bone, Inter radicular bone			
		Radicular bone: Composition of			
		the bone, Cellular elements,			
		Organic components, Inorganic			
		components			
		Haversian system or Osteon			
		Periosteum and Endosteum			
		Remodeling of alveolar bone			





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7	1	Classification of periodontal	Classification of	Theory	Theory
		diseases and conditions (2017)	periodontal	lectures	exam
		Reasons for classification	disease		
		Major changes from previous			
		classification			
		Periodontal health and gingival			
		diseases and conditions			
		Periodontal health and gingival			
		health:			
		Clinical gingival health on an			
		intact periodontium			
		Clinical gingival health on a			
		reduced periodontium:			
		Stable periodontitis			
		Non-periodontitis patients			
		The classification of dental			
		biofilm induced gingivitis:			
		Associated with bacterial dental			
		biofilm only			
		Mediated by systemic or local			
		risk factors			
		Systemic conditions			
		Oral factors enhancing plaque			
		accumulation			
		Drug-influenced gingival			
		enlargements Case definition of			
		gingivitis:			
		Gingivitis on an intact			
		periodontium			
		Gingivitis on a reduced			
		periodontium			
		Non-dental biofilm induced			
		gingival disease:			
		Genetic/developmental disorders			
		Specific infections			
		Inflammatory and immune			
		conditions and lesions			
		Reactive processes			
		Neoplasms Endocrino nutritional and			
		Endocrine, nutritional, and			
		metabolic diseases			
		Traumatic lesions			
		Gingival pigmentation			





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8	1	Classification of periodontal	Classification of	Theory	Theory
		diseases and conditions (2017)	periodontal	lectures	exam
		Periodontitis	disease		
		Periodontitis (Extent, Staging,			
		Grading, Status, Risk factors)			
		Necrotizing periodontal			
		diseases: Necrotizing gingivitis,			
		Necrotizing periodontitis,			
		Necrotizing Stomatitis)			
		Periodontitis as a manifestation			
		of systemic disease			
		Peri-implant disease and			
		conditions: Peri- implant health,			
		Peri-implant mucositis, Peri-			
		implantitis, Peri-implant soft and			
		hard tissues deficiency			
9	1	Classification of periodontal	Classification of	Theory	Theory
		diseases and conditions (2017)	periodontal	lectures	exam
		Other conditions affecting the	disease		
		periodontium			
		Periodontal abscess: Periodontal			
		abscess in periodontitis patients			
		Periodontal abscess in non-			
		periodontitis patients			
		Endodontic periodontal lesions:			
		Endo-periodontal lesions			
		associated with endodontic and			
		periodontal infections			
		Endo-periodontal lesions			
		associated with trauma and			
		iatrogenic factors			
		Mucogingival deformity and			
		conditions			
		Traumatic occlusal force			
		Tooth and prosthetic related			
		factors			





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10	1	Etiology of periodontal disease Periodontal disease pathogenesis	Etiology of periodontal	Theory	Theory
		Mechanisms of pathogenicity	disease	lectures	exam
		Histopathology of periodontal	and		
		disease: Clinically healthy			
		gingival tissues			
		Histopathology of gingivitis and			
		periodontitis: The initial lesion			
		The early lesion, The established			
		lesion			
		The advanced lesion:			
		Inflammatory responses in the periodontium:			
		Microbial virulence factors:			
		Lipopolysaccharide, Bacterial			
		enzymes, Microbial invasion			
		Fimbriae, Bacterial DNA, Host-			
		Derived Inflammatory			
		Mediators: Cytokines,			
		Prostaglandins, Matrix			
1.1		metalloproteinases	F.: 1	TO I	TO 1
11	1	Etiology of periodontal disease and risk factors	Etiology of	Theory	Theory
		Dental plaque biofilm and	periodontal disease and risk	lectures	exam
		periodontal microbiology	factors		
		Definitions: Supragingival			
		plaque, Subgingival plaque,			
		Structure of a mature dental			
		plaque biofilm			
		Accumulation of a dental plaque			
		biofilm: Formation of the			
		pellicle, Initial			
		adhesion/attachment of bacteria,			
		Colonization and plaque maturation			
		Factors affecting supragingival			
		dental plaque formation:			
		Topography of supragingival			
		plaque, Surface microroughness,			
		Individual variables that			
		influence plaque formation,			
		Variation within the dentition			
		Impact of gingival inflammation			
		and saliva			
		Impact of patient's age			
		Spontaneous tooth cleaning			





		Metabolism of dental plaque			
		bacteria			
		Communication between biofilm			
		bacteria			
		Biofilms and antimicrobial			
		resistance			
12	1	Dental calculus	Dental calculus	Theory	Theory
		Clinical appearance and		lectures	exam
		distribution (Supragingival and			
		Subgingival Calculus)			
		Calculus formation:			
		Theories of calculus formation			
		Calculus composition: Inorganic			
		content, Organic content			
		Attachment to tooth surfaces and			
		implants			
		Clinical significance			
13	1	Dental stain	Dental stain	Theory	Theory
		Color and color perception	2 011001 2 00111	lectures	exam
		Classification of tooth		icctures	CAdili
		discoloration: Intrinsic			
		discoloration, Extrinsic			
		discoloration, Internalized			
		discoloration			
		The mechanisms of tooth			
		discoloration			
		Prevention			
		Treatment approaches			
14	1		Etiology of	Theory	Theory
14	1	Etiology of periodontal disease	Etiology of	Theory	Theory
		Risk factors for periodontal	periodontal	lectures	exam
		diseases: o Definitions of risk	disease		
		factors			
		Systemic risk factors:			
		Modifiable risk factors, Non-			
		modifiable risk factors			
		Local predisposing factors:			
		Calculus, Iatrogenic factors,			
		Margins of restorations,			
		Malocclusion Associated with			
		orthodontic therapy			
		Local anatomic risk factors			





15	1	Etiology of periodontal disease	Etiology of	Theory	Theory
		Molecular biology of host-	periodontal	lectures	exam
		microbe interactions	disease		
		Microbe-associated molecular			
		patterns			
		Toll-like receptors: Toll-like			
		receptor-4—lipopolysaccharide			
		recognition, Toll-like receptor-			
		2-lipoprotein/lipoteichoic			
		acid/peptidoglycan recognition			
		Role of toll-like receptors in			
		periodontitis			
		Complement system:			
		Classical/Lectin/Alternative			
		pathways, Role of complement			
		in periodontitis			
16	1	Etiology of periodontal disease	Etiology of	Theory	Theory
		and risk factors	periodontal	lectures	exam
		Smoking and Periodontal	disease and risk	icetares	CAUTI
		Disease	factors		
		Effects of smoking on the			
		prevalence and severity of			
		periodontal diseases: Gingivitis,			
		Periodontitis			
		Effects of smoking on the			
		etiology and pathogenesis of			
		periodontal disease:			
		Microbiology			
		Immune–inflammatory			
		responses			
		Physiology			
		Effects of smoking on the			
		response to periodontal therapy:			
		Nonsurgical Therapy, Surgical			
		Therapy and Implants,			
		Maintenance Therapy			
		Effects of smoking cessation on			
		periodontal treatment outcomes			
		periodolitai deadlicht outcomes			





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17	1	Impact of periodontal infection on systemic health Focal infection theory revisited Subgingival environment as a reservoir for bacteria Periodontal disease, coronary heart disease, and atherosclerosis: Ischemic heart disease Atherosclerosis Periodontal disease and stroke Periodontal disease and diabetes mellitus: o Periodontal infection	Impact of periodontal infection on systemic health	Theory lectures	Theory
18	1	associated with glycemic control in diabetes Impact of periodontal infection	Impact of	Theory	Theory
		on systemic health Periodontal disease and asthma Periodontal disease and pregnancy outcome Periodontal disease and chronic obstructive pulmonary disease Periodontal disease and acute respiratory infections	periodontal infection on systemic health	lectures	exam
19	1	Periodontal indices Definitions Gingival index (Loe and Silness) Plaque index (Silness and Loe) Plaque index (O'leary) Plaque index (Quigely Hein) Probing pocket depth Clinical attachment loss Basic Periodontal Examination (BPE) Modified Gingival Index Bleeding on probing Furcation involvement index Calculus index Recession index (Miller) Recession index (Cairo)	Periodontal indices	Theory lectures	Theory exam





20	1	The periodontal pocket Classification	The periodontal pocket	Theory lectures	Theory exam
		Clinical features			
		Pathogenesis			
		Histopathology: Bacterial invasion			
		Microtopography of the gingival			
		wall			
		Periodontal pockets as healing			
		lesions			
		Pocket contents			
		Root surface walls			
21	1	The periodontal pocket	The periodontal	Theory	Theory
		Periodontal disease activity	pocket	lectures	exam
		Pulp changes associated with			
		periodontal pockets			
		Relationship of attachment loss			
		and bone loss to pocket depth Area between base of pocket and			
		alveolar bone			
		Relationship of pocket to bone			
		Periodontal abscess			
		Lateral periodontal cyst			
22	1	Treatment plan guidelines	Treatment plan	Theory	Theory
		Phase 1 (behavior change,	guidelines	lectures	exam
		removal of supragingival dental			
		biofilm and risk factor control):			
		o Self-performed supragingival			
		biofilm control:			
		Oral hygiene practices to control gingival inflammation			
		Behavioral change for oral			
		hygiene improvement			
		Motivational interviewing and			
		cognitive behavioral therapy			
		Adjunctive therapies for gingival			
		inflammation			
		Professional supragingival			
		dental biofilm control			
		Risk factor control: Local risk factor control			
		Tobacco smoking cessation			
		interventions			
		Promotion of diabetes control			
		interventions			





Treatment plan guidelines Phase 2 (cause-related therapy) Subgingival instrumentation: Scaling Root planning Removal of plaque-retentive factors Use of adjunctive systemically administered antibiotics to subgingival instrumentation Re-evaluation of the cause-related therapy Decision to refer for specialist						
Subgingival instrumentation: Scaling Root planning Removal of plaque-retentive factors Use of adjunctive systemically administered antibiotics to subgingival instrumentation Re-evaluation of the cause- related therapy Decision to refer for specialist 24 1 Treatment plan guidelines Phase 3 (corrective/surgical phase) Objectives of surgical therapy Periodontal access surgery: Respective Regenerative Extraction of hopeless teeth Periodontal plastic surgery: Mucogingival surgery Aesthetic crown lengthening Pre-prosthetic surgery: Crown lengthening Implant site preparation 25 1 Treatment plan guidelines Phase 4 (maintenance therapy) Clinical recommendations Self-performed supragingival dental biofilm control Adjunctive therapies for gingival inflammation Professional supragingival dental biofilm control	23	1	1 0		Theory	Theory
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inflammation Professional supragingival dental biofilm control						
Professional supragingival dental biofilm control			Adjunctive therapies for gingival			
dental biofilm control			inflammation			
			Professional supragingival			
Risk factor control			dental biofilm control			
			Risk factor control			





	وراب زدراله	,			نامخ را
26	1	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 Oral irrigation: Supragingival irrigation, Subgingival irrigation Caries control	Plaque biofilm control for the periodontal patient	Theory lectures	Theory exam
27	1	Plaque biofilm control for the periodontal patient Chemical plaque biofilm control with oral rinses: Chlorhexidine digluconate: Mode of action, Clinical use, Side-effects Nonprescription essential oil rinse Other products Disclosing agents Patient motivation and education: Motivation for effective plaque biofilm control Education and scoring systems: Plaque biofilm control record (O'Leary Index) Bleeding points index Instruction and demonstration	Plaque biofilm control for the periodontal patient	Theory lectures	Theory exam





28	1	Periodontal instruments and	Periodontal	Theory	Theory
		sharpening	instruments and	lectures	exam
		Types of periodontal	sharpening		
		instruments: Diagnostic			
		instruments, Scaling, root			
		planning, and curettage			
		instruments,			
		Plastic and Titanium Instruments			
		for Implants			
		Cleansing and polishing			
		instruments			
		Surgical instruments			
		Instrument stabilization:			
		Instrument Grasping, Finger			
		Rest			
		Condition of the instruments and			
		resharpening			
29	1	Breath Malodor (Halitosis)	Breath Malodor	Theory	Theory
		Definitions, Epidemiology,	(Halitosis)	lectures	exam
		Classification		icciaics	CAUIII
		Etiology:			
		Intraoral Causes: Tongue and			
		tongue coating, Periodontal			
		infections, Dental disorders, Dry			
		mouth			
		Extraoral Causes: Pseudo-			
		halitosis or Halitophobia,			
		Diagnosis of malodor			
		Prevention and management:			
		Mechanical reduction of			
		intraoral nutrients and			
		microorganisms			
		Chemical reduction of oral			
		microbial load: Chlorhexidine,			
		Essential oils, Chlorine dioxide,			
		Two-phase oil-water rinse,			
		Triclosan, Hydrogen Peroxide			
		Amine Fluoride or Stannous			
		compounds: Metal Salt			
		-			
		Fluoride Conversion of volatile sulfur			
		Solutions, Masking the Malodor			





	300-71-41				
30	1	Systemic anti-infective therapy	Systemic anti-	Theory	Theory
		for periodontal diseases	infective therapy	lectures	exam
		Definitions	for periodontal		
		Common antibiotic regimens	diseases		
		used to treat periodontal diseases			
		Tetracyclines:			
		Specific agents: Tetracycline,			
		Minocycline, Doxycycline,			
		Metronidazole			
		Penicillin derivatives:			
		Amoxicillin, Amoxicillin-			
		Clavulanate Potassium,			
		Cephalosporins, Clindamycin			
		Ciprofloxacin, Macrolides			
		Single vs combination antibiotic			
		therapy			
		Clinical implications			
11.C	ourse	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

as daily preparation, daily oral, monthly, or written exams, reports etc			
12.Learning and Teaching Resources			
Required textbooks (curricular books, if			
any)			
Main references (sources)			
Recommended books and references			
(scientific journals, reports)			
Electronic References, Websites			





1. Cour	se Name:		
Orthodontics			
2. Cour	se Code:		
	402 ORTH		
3. Seme	ester / Year:		
	Fourth year		
4. Descr	ription Preparation Date:		
	01 March 2024		
5. Avail	lable Attendance Forms:		
	Theoretical and practical		
	ber of Credit Hours (Total) / Number of Units (Total)		
	: 30 hours, practical: 120 hours. Total units: 5		
	se administrator's name (mention all, if more than one name)		
	st Prof Dr Enas Talab Mohsin		
	tallb@uomosul.edu.iq		
	ourse Objectives		
Course	- Introduction to orthodontics.		
Objectives	- Study the effect of tooth movement.		
	- Study the principle of removable orthodontic appliance.		
	- Study the principles of manual wire bending.		
	- Study the biomechanics		
9. Teacl	hing and Learning Strategies		
Strategy	 Theory lectures and practical laboratories. 		
	 Educational videos and utilization of smart boards. 		
	- Use of educational models.		
	 Focused student group discussion. 		





10. C	ourse	Structure			
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Definition of orthodontics Definition of occlusion, normal occlusion, ideal occlusion and malocclusion Six keys of normal occlusion	Introduction	Theory lectures	Theory exam
2	1	Orthodontic definitions (overjet, overbite, crossbite, spacing, crowding, midline deviation, rotation, displacement, proclination, retroclination, protrusion, retrusion, imbrication, overlap, impaction) – including types	Aims of orthodontic treatment	Theory lectures	Theory exam
3	1	Classification of malocclusion a. Angle's classification including divis and subdivisions	Malocclusion	Theory lectures	Theory exam
4	1	b. molar, canine, incisor classifications c. classification of deciduous and mix dentitions	Malocclusion	Theory lectures	Theory exam
5	1	Definitions of growth, development and maturity Stages of development (ovum till birth) Theories of bone growth (cartiligeneous, sutural, endosteal-periosteal, matrix theories)	Definitions of growth	Theory lectures	Theory exam
6	1	Definitions of growth site, growth center, displacement, and drift Growth curve and maximum growth spurt	Definitions of growth	Theory lectures	Theory exam
7	1	Growth and development of hard tissues (cranial base, cranial vault, nasomaxillary complex, mandible) including prenatal and postnatal Growth and development of soft tissues (lip, nose, cheek and tongue) including prenatal and postnatal	Definitions of growth	Theory lectures	Theory exam





8	1	Jaw rotation and adaptation	Developmental	Theory	Theory
	1	waw rotation and adaptation	anomalies	lectures	exam
9	1	Deciduous and permanent dentition Stages of tooth development: Formation, calcification and root completion		Theory lectures	Theory exam
10	1	Tooth eruption (stages and theories) Sequences and timing of eruption	Tooth eruption	Theory lectures	Theory exam
11	1	new born oral cavity (relationship of gum pads, neonatal jaw relationships, natal and neonatal teeth) Deciduous dentition stage - Dental changes till 6 years of age (jaw relationship, attrition, primary spaces	Development of occlusion	Theory lectures	Theory exam
12	1	c-Early mixed dentition stage - eruption of first molars and incisors (occlusal relationships of primary and permanent molars, early mesial shift, ugly duckling stage, secondary spaces) d. Late mixed dentition stage - eruption of canines and premolars (Leeway space and late mesial shift) e.Permanent dentition - eruption second and third molars (mesial migration)	Development of occlusion	Theory lectures	Theory exam
13	1	Genetic factors and inherited factors Classification of etiological factors a. General factors i. Skeletal (dental base and cranial base, variation of position and size of the jaws)	Etiology of malocclusion:	Theory lectures	Theory exam





14	1	ii- Soft tissue (muscles of face and mastication, muscles of lip and tongue, relation to skeletal factors, abnormalities of oro- facial musculature, interference with soft tissue function) iii. Tooth size and arch length relationship (Crowding and spacing) including types	Etiology of malocclusion:	Theory	Theory
15	1	i-Extra-teeth (supernumerary) and missing teeth (hypodontia) ii. Anomalies of tooth size and shape	Etiology of malocclusion:	Theory lectures	Theory exam
16	1	iii- Early loss of deciduous teeth iv. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis	Etiology of malocclusion:	Theory lectures	Theory exam
17	1	Abnormal eruptive behavior (displacement, transposition) vi. Large frenum (labial and lingual), periodontal diseases	Etiology of malocclusion:	Theory lectures	Theory exam
18	1	Oral habit Dental caries, improper dental restoration	Etiology of malocclusion:	Theory lectures	Theory exam
19	1	Tooth movement a. Tissue changes associated with tooth movement: Histology of periodontium Theories of tooth movement (pressure tension theory, blood flow theory, and piezoelectric theory)	Tooth movement	Theory lectures	Theory
20	1	b. Biomechanics Force (application, type, magnitude, duration and direction) Center of resistance and rotation, moment of force and moment of couple.	Tooth movement	Theory lectures	Theory exam
21	1	Types of tooth movement Rate of tooth movement and factors affecting it	Tooth movement	Theory lectures	Theory exam





22	Orthodontic appliances	Orthodontic appliances	Theory	Theory
	a. Overview:	appliances	lectures	exam
	i. passive orthodontic			
	appliances (habit breaker,			
	retainer and space maintainer)			
	ii. active orthodontic			
	appliances (removable, fixed,			
	orthopedic and myofunctional,			
22	and combination)	0.1.1.	TEST.	- TT1
23	b. Removable Orthodontic	Orthodontic	Theory	Theory
	Appliance:	appliances	lectures	exam
	Properties of various			
	components (SS wire, acrylic)			
	Components:			
	1) nativa componente (aminos			
	1) active components (springs,			
24	screws and elastics)	Outh a day 4'	There	T1
24	retentive components (clasps)	Orthodontic	Theory	Theory
	acrylic base plate and bite planes	appliances	lectures	exam
	anchorage			
25	Design of a removable	Orthodontic	Theory	Theory
	orthodontic appliance	appliances	lectures	exam
	Construction of a removable			
	orthodontic appliance			
26	V. Soldering and welding	Orthodontic	Theory	Theory
	vi. Post-insertion instructions	appliances	lectures	exam
	and guidelines			
27	c. Fixed orthodontic appliance:	Orthodontic	Theory	Theory
	Types, components, advantages,	appliances	lectures	exam
	limitation, biomechanics,			
	banding vs. bonding			
28	Use of extra-oral anchorage,	Orthodontic	Theory	Theory
	temporary anchorage devices	appliances	lectures	exam
	(TADs), and lingual fixed			
	appliance			
29	d. Orthopedic and	Orthodontic	Theory	Theory
	Myofunctional appliance:	appliances	lectures	exam
	- Types, components,			
	advantages, limitation, mode of			
	action			
	e. Other active appliances:			
1	combination appliances,			
	comomation appliances,			
	combination appliances			





30	1	f. Retention and retainers	Orthodontic	Theory	Theory
			appliances	lectures	exam
		- Retention (definition, reason,			
		time)			
		Retainers (Hawley, clear			
		overlay, positioners, permanent			
		fixation, precision)			

11. Course Evaluation

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

12.Learning and Teaching Resources Required textbooks (curricular books, if any) princular books, if pri

- Orthodontics; current principles and technique Introduction to orthodontic
- -Contemporary
 Orthodontics, William R. Proffit
 Sixth edition
 -Textbook of Orthodontics Singh
 2007

	2007
Main references (sources)	
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	





1. Cour	se Name:				
	Oral Surgery				
2. Cour	2. Course Code:				
-	403 OSUR				
3. Seme	ester / Year:				
. –	Fourth year				
4. Desc	ription Preparation Date:				
	01 March 2024				
5. Avai	lable Attendance Forms:				
	Theoretical and practical				
	ber of Credit Hours (Total) / Number of Units (Total)				
	: 30 hours, practical: 120 hours. Total units: 6				
	se administrator's name (mention all, if more than one name)				
Name: Assi	st Lect Saja Mahmood Mohammed				
Email: saja.	dep5@student.uomosul.edu.iq				
8. Cour	se Objectives				
Course	- Introduction to Oral Surgery.				
Objectives	- Study the methods of tooth extraction.				
	- Study the principle of surgical treatment of infection.				
	- Study the dental management of compromised patients.				
9. Teach	hing and Learning Strategies				
Strategy	- Theory lectures and practical laboratories.				
	 Educational videos and utilization of smart boards. 				
	- Use of educational models.				
	 Focused student group discussion. 				





10. Course Structure

Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject	Learning	Evaluation
			name	method	method
1	1	Cardiovascular diseases	Cardiovascular	Theory	Theory
			diseases	lectures	exam
2	1	Cardiac arrhythmia	Cardiac	Theory	Theory
			arrhythmia	lectures	exam
3	1	Bleeding disorder	Bleeding disorder	Theory	Theory
				lectures	exam
4	1	Endocrinology	Endocrinology	Theory	Theory
				lectures	exam
5	1	Pulmonary diseases	Pulmonary	Theory	Theory
			diseases	lectures	exam
6	1	Liver Diseases	Liver Diseases	Theory	Theory
				lectures	exam
7	1	Chronic kidney disease and	Chronic kidney	Theory	Theory
		dialysis	disease and dialysis	lectures	exam
8	1	Neurologic disorders	Neurologic	Theory	Theory
			disorders	lectures	exam
9	1	Pregnancy	Pregnancy	Theory	Theory
				lectures	exam
10	1	AIDS and HIV infection	AIDS and HIV	Theory	Theory
			infection	lectures	exam
11	1	Rheumatologic and connective	Rheumatologic	Theory	Theory
		tissue disorders	and connective	lectures	exam
			tissue disorders		
12	1	Allergy	Allergy	Theory	Theory
				lectures	exam
13	1	Patients on radiotherapy and	Patients on	Theory	Theory
		chemotherapy	radiotherapy and chemotherapy	lectures	exam





14	1	Odontogenic infections and fascial space infections	Odontogenic infections and fascial space infections	Theory lectures	Theory exam
15	1	Fascial space infections	Fascial space infections	Theory lectures	Theory exam
16	1	Principles of treatment of odontogenic infections	Principles of treatment of odontogenic infections	Theory lectures	Theory exam
17	1	Principles of Flaps, suturing and management of difficult extraction	Principles of Flaps, suturing and management of difficult extraction	Theory lectures	Theory exam
18	1	Management of difficult extraction	Management of difficult extraction	Theory lectures	Theory exam
19	1	Principles of management of impacted teeth	Principles of management of impacted teeth	Theory lectures	Theory exam
20	1	Impacted upper third molars	Impacted upper third molars	Theory lectures	Theory exam
21	1	Impacted mandibular canines	Impacted mandibular canines	Theory lectures	Theory exam
22	1	Surgical aids to orthodontics	Surgical aids to orthodontics	Theory lectures	Theory exam
23	1	Principles of endodontic surgery	Principles of endodontic surgery	Theory lectures	Theory exam
24	1	Surgical procedure	Surgical procedure	Theory lectures	Theory exam





25	1	Osteomyelitis and osteonecrosis of the jaw	Osteomyelitis and osteonecrosis of	Theory lectures	Theory exam
26	1	Radiation induced osteomyelitis and osteoradionecrosis	Radiation induced osteomyelitis and osteoradionecrosi s	Theory lectures	Theory
27	1	Dental Implants: Basic Concepts and Techniques	Dental Implants: Basic Concepts and Techniques	Theory lectures	Theory exam
28	1	Surgical Treatment Planning Considerations	Surgical Treatment Planning Considerations	Theory lectures	Theory exam
29	1	Biopsy in oral and maxillofacial surgery	Biopsy in oral and maxillofacial surgery	Theory lectures	Theory exam
30	1	Diagnostic imaging in oral and maxillofacial surgery	Diagnostic imaging in oral and maxillofacial surgery	Theory lectures	Theory exam

Clinical Part

Oral Surgery Clinics

11.Course Evaluation

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

12.Learning and Teaching Resources

Required textbooks (curricular books, if	1. Little and Falace's Dental
any)	Management of the Medically
	Compromised Patient 9th Edition
	2. Contemporary Oral and
	Maxillofacial Surgery, 7th Edition
Main references (sources)	
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	





1. Course Name:

Operative and Esthetic Dentistry and Endodontics

2. Course Code:

404 COND

3. Semester / Year:

Fourth year

4. Description Preparation Date:

01 March 2024

5. Available Attendance Forms:

Theoretical and practical

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

Theoretical: 30 hours, practical: 180 hours. Total units: 6

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

Name: Lect Fanar Turki Abdulhammed Email: fanarturki@uomosul.edu.com

8. Course Objectives

Course Objectives

- A. Cognitive Objectives
 - Structuring and programming information in a way that enables the student to comprehend and enhance knowledge regarding both theoretical and practical aspects.
 - Providing essential information and treatment steps.
- B. Skill-Based Objectives Specific to the Course
 - Training students on the process of tooth preparation according to the types of fillings.
 - Teaching students how to perform fillings and root canal treatments on extracted teeth fixed in acrylic.
- C. Affective and Value-Based Objectives
 - Preparing the student practically in terms of applying the acquired knowledge to treat patients' teeth.





9. Teaching and Learning Strategies

Strategy

- Theory lectures and practical laboratories.
- Educational videos and utilization of smart boards.
- Use of educational models.
- Focused student group discussion.

10. Course Structure

Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject	Learning	Evaluation
			name	method	method
1	1	Biologic Considerations of Enamel	Enamel structure	Theory	Theory
		structure and its Clinical Significance		lectures	exam
		in Practice of Operative Dentistry.			
2	1	Biologic Considerations of Enamel	Enamel structure	Theory	Theory
		structure and its Clinical		lectures	exam
		Significance			
3	1	in Practice of Operative Dentistry. Biologic Considerations of Dentin	Dentin structure	Theory	Theory
3	1	structure & its Clinical Significance	Dentin structure	lectures	1
		in		lectures	exam
		Operative Dentistry			
4	1	Biologic Considerations of Dentin	Dentin structure	Theory	Theory
		structure & its Clinical Significance in		lectures	exam
		Operative Dentistry			
5	1	Patient Evaluation , Diagnosis &	Patient	Theory	Theory
		Treatment Planning	Evaluation	lectures	exam
6	1	Caries Management (Diagnosis &	Caries	Theory	Theory
		treatment strategies)	Management	lectures	exam
7	1	Cervical Lesions(carious and non	Caries	Theory	Theory
		carious lesions)	Management	lectures	exam
8	1	Restorative Dentistry and Pulpal	Caries	Theory	Theory
		Health	Management	lectures	exam
9	1	Management of Deep Seated Caries	Caries	Theory	Theory
			Management	lectures	exam
10	1	Inflammatory Conditions of the	Inflammatory	Theory	Theory
		Pulp	Conditions of the	lectures	exam
			Pulp		





	1,412,11				
11	1	Treatment of Deep Seated Caries	Inflammatory	Theory	Theory
		Simplified anatomical modeling.	Conditions of the Pulp	lectures	exam
12	1	Fluoride – Releasing Materials	Fluoride	Theory	Theory
				lectures	exam
13	1	Indirect aesthetic adhesive	Indirect aesthetic	Theory	Theory
		restorations	adhesive	lectures	exam
		Inlays and Onlays (materials ,techniques) CAD/CAM	restorations		
		Technology.			
14	1	Direct tooth-colored restorations(Direct tooth-	Theory	Theory
		Composite)	colored	lectures	exam
			restorations		
15	1	Dental Laser	Laser	Theory	Theory
				lectures	exam
16	1	Application of Laser in	Laser	Theory	Theory
		Conservative Dentistry.		lectures	exam
17	1	Application of Laser in	Laser	Theory	Theory
		Conservative Dentistry.		lectures	exam
18	1	Indirect tooth-colored restorations	Indirect tooth-	Theory	Theory
			colored	lectures	exam
10			restorations	mi .	
19	1	Techniques of posterior composite Inlay/Onlay restoration system	Indirect tooth-	Theory	Theory
		Laboratory-processed composite	colored	lectures	exam
		inlays and onlays.	restorations		
20	1	Ceramic veneers, inlays and onlays,	Ceramic	Theory	Theory
		clinical procedures.		lectures	exam
21	1	Ceramic veneers, inlays and onlays,	Ceramic	Theory	Theory
		clinical procedures.		lectures	exam
22	1	CAD/CAM techniques	CAD/CAM	Theory	Theory
			techniques	lectures	exam
23	1	CAD/CAM techniques	CAD/CAM	Theory	Theory
			techniques	lectures	exam
24	1	Objective of endodontic treatment	Endodontic	Theory	Theory
			treatment	lectures	exam
25	1	2- Basic Phases of Treatment	Endodontic	Theory	Theory
			treatment	lectures	exam
26	1	3- Pulp pathologies	Endodontic	Theory	Theory
			treatment	lectures	exam
27	1	Classification of periapical diseases	Endodontic	Theory	Theory
			treatment	lectures	exam





28	1	Access Opening Preparation	Endodontic	Theory	Theory
			treatment	lectures	exam
29	1	Endodontic Instruments	Endodontic	Theory	Theory
			treatment	lectures	exam
30	1	Roentgenography in Endodontics	Endodontic	Theory	Theory
		and Root canal preparation	treatment	lectures	exam

Clinical Part

The students are required to complete the following restorations:-

First term clinic (90 hours) – 6 hr/week

a. Amalgam Restorations

Class I, Class II

b. Composite (tooth colored) Restorations

Class III, or Class IV

c. mid examination class I on patient

Second term clinic (90 hours) – 6 hr/week

a. Amalgam Restorations

Class I, Class II

b. Composite (tooth colored) Restorations

Class III, or Class IV

C.preclinic root canal treatment on extracted tooth

d. final examination class II on patient

11.Course Evaluation

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

Required textbooks (curricular books, if any) Required textbooks (curricular books, if any) Recommended books and references (scientific journals, reports...) Electronic References, Websites Ingle's endodontics 7ed Clinical endodontic 3rd ed Text books of endodontics Advanced operative dentistry Electronic References, Websites





			•				
1.	Cour	se Name:					
	Oral Pathology						
2.	Cour	se Code:					
			PATH				
3.	Seme	ester / Year:					
			h year				
4.	Desc	ription Preparation Date:					
			ch 2024				
5.	Avai	lable Attendance Forms:					
			and practical				
		ber of Credit Hours (Total) / Nu		Total)			
		: 60 hours, practical: 90 hours.					
		se administrator's name (mentio	n all, if more tha	in one name	e)		
		st Prof Dr Manar M Al-Nema					
		aralnema@uomosul.edu.iq					
		se Objectives					
Cours		Correlating clinical patholo	gical cases w	ith their	microscopic		
Objec	tives	observations Linking clinical disease cases	with their micros	conic anne	arance		
		Linking chinical disease cases	with their inicros	всоріс арре	arance		
9.	Teac	hing and Learning Strategies					
Strate	gy	 Theory lectures and practices 	ctical laboratorie	S.			
		 Educational videos and utilization of smart boards. 					
		 Use of educational models. 					
	 Focused student group discussion. 						
10. C	ourse	Structure					
Theore	etical	Part					
Week	Hr	Required Learning Outcomes	Unit or subject	Learning	Evaluation		
4			name	method	method		
1	2	Biopsy in oral pathology	Biopsy in oral pathology	Theory lectures	Theory		
			radio 1053	iectures	exam		





2	2	Healing in oral pathology	Healing in oral	Theory	Theory
		Treating in oral pathology	pathology	lectures	exam
3	2	Caries	Caries	Theory	Theory
				lectures	exam
4	2	Pulpitis	Pulpitis	Theory	Theory
			1 dipitis	lectures	exam
5	2	Periapical pathology	Periapical	Theory	Theory
		r chaptear pathology	pathology	lectures	exam
6	2	Osteomyelitis	Osteomyelitis	Theory	Theory
	_			lectures	exam
7	2	Developmental disorders of teeth	Developmental	Theory	Theory
	_		disorders of	lectures	exam
			teeth		0.10.11
8	2	Developmental disorders of hard	Developmental	Theory	Theory
		& soft tissues	disorders of hard	lectures	exam
9	2	Non odontogenic cysts	& soft tissues Non	Theory	Theory
9	2	Non adomagenic cysis	odontogenic	lectures	exam
			cysts	icciures	CXaIII
10	2	Odontogenic cysts	Odontogenic	Theory	Theory
10	2	Odontogeme cysts	cysts	lectures	exam
11	2	Odontogenic tumors 1	Odontogenic	Theory	Theory
11	2	Odonogeme tumors i	tumors 1	lectures	exam
12	2	Odontogenic tumors2	Odontogenic	Theory	Theory
12		Odontogeme tumorsz	tumors2	lectures	exam
13	2	Benign epithelial	Benign	Theory	Theory
		lesions,leukoplakia	epithelial	lectures	exam
		1	lesions,leukopla	10000105	Criarii
			kia		
14	2	Epithelial hyperplasia, atrophy &	Epithelial	Theory	Theory
		dysplasia	hyperplasia,atro	lectures	exam
			phy & dysplasia		
15	2	Squamous cell carcinoma & other	Squamous cell	Theory	Theory
		malignant leoplasms	carcinoma &	lectures	exam
			other malignant		
1.6	2	C1 1.1.	leoplasms	T1	T1
16	2	fibro osseous lesions, metabolic and genetic conditions	fibro osseous	Theory	Theory
		and genetic conditions	lesions,	lectures	exam
			metabolic and		
			genetic		
			conditions		





17	2	Giant cell lesions	Giant cell	Theory	Theory
			lesions	lectures	exam
18	2	Benign tumors of the bone	Benign tumors	Theory	Theory
			of the bone	lectures	exam
19	2	malignant tumors of the bone	malignant	Theory	Theory
			tumors of the	lectures	exam
			bone		
20	2	viral infection	viral infection	Theory	Theory
				lectures	exam
21	2	bacterial and fungal infection	bacterial and	Theory	Theory
			fungal infection	lectures	exam
22	2	Immune mediated disorder 1	Immune	Theory	Theory
			mediated	lectures	exam
			disorder 1		
23	2	Immune mediated disorder 2	Immune	Theory	Theory
			mediated	lectures	exam
			disorder 2		
24	2	connective tissue lesions 1	connective	Theory	Theory
			tissue lesions 1	lectures	exam
25	2	connective tissue lesions 2	connective	Theory	Theory
			tissue lesions 2	lectures	exam
26	2	salivary gland disorders	salivary gland	Theory	Theory
			disorders	lectures	exam
27	2	salivary gland neoplasms	salivary gland	Theory	Theory
			neoplasms	lectures	exam
28	2	physical and chemical injuries	physical and	Theory	Theory
			chemical	lectures	exam
29	2	Homotopoiotio tymona	injuries	Theory	Theomy
29		Hematopoietic tumors	Hematopoietic	Theory	Theory
20	2	Fanancia dantistas	tumors	lectures	exam
30	2	Forensic dentistry	Forensic dentistry	Theory	Theory
			uchusu y	lectures	exam

Practical part

Week	Hr	Laboratory subject	Learning method	Evaluatio n method
1	3	Data show and demonstration of biopsy processing	Practical work	Practical exam
2	3	Data show about Healing in oral pathology	Practical work	Practical exam





3	3	Acute and chronic dental caries	Practical	Practical
			work	exam
4	3	Acute pulpitis, chronic pulpitis and pulp polyp	Practical	Practical
			work	exam
5	3	Periapical granuloma, cyst and abscess	Practical	Practical
			work	exam
6	3	Acute and chronic osteomyelitis and squestrum	Practical	Practical
			work	exam
7	3	Data show about developmental disorder of teeth	Practical	Practical
			work	exam
8	3	Data show about developmental disorder of soft	Practical	Practical
		tissue	work	exam
9	3	Data show about non odontogenic cysts	Practical	Practical
			work	exam
10	3	Dentigerous cyst, kertatocyst ,calcifying	Practical	Practical
		odontogentic cyst and eruption cyst	work	exam
11	3	Ameloblastoma,adenomatoid odontogenic tumor	Practical	Practical
		and odontoma	work	exam
12	3	Ameloblastic fibroma odontoma	Practical	Practical
			work	exam
13	3	Leukoplakia, squamous cell papilloma	Practical	Practical
			work	exam
14	3	Epithelial dysplasia	Practical	Practical
			work	exam
15	3	Squamous cell carcinoma	Practical	Practical
			work	exam
16	3	Fibro dysplasia, ossifying fibroma	Practical	Practical
			work	exam
17	3	Giant cell lesions, central and peripheral giant cell	Practical	Practical
		granuloma	work	exam
18	3	Osteoma	Practical	Practical
			work	exam
19	3	Osteosarcoma	Practical	Practical
			work	exam
20	3	Data show about viral infections	Practical	Practical
			work	exam
21	3	Data show about bacterial and fungal infection	Practical	Practical
			work	exam





22	3	Lichen planus	Practical	Practical
22	3	Lichen planus		Fractical
			work	exam
23	3	Pemphigus vulgaris	Practical	Practical
			work	exam
24	3	Fibroma, and pyogenic granuloma	Practical	Practical
			work	exam
25	3	Hemangioma, and lymphangioma	Practical	Practical
			work	exam
26	3	Mucocele and data show	Practical	Practical
			work	exam
27	3	Pleomorphic adenoma and mucoepidermoid	Practical	Practical
		carcinoma	work	exam
28	3	Data show physical and chemical injuries	Practical	Practical
			work	exam
29	3	Hematological neoplasms	Practical	Practical
			work	exam
30	3	Data show about forensic dentistry	Practical	Practical
			work	exam
11.0		T 1 /'		•

11. Course Evaluation

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

	···				
12.Learning and Teaching Resources	12.Learning and Teaching Resources				
Required textbooks (curricular books, if any)	Cawson's Essentialis of oral pathology & oral medicine(ninth edition) by E.W.Odell				
Main references (sources)	Cawson's Essentialis of oral pathology & oral medicine(ninth edition) by E.W.Odell				
Recommended books and references (scientific journals, reports)	Oral & maxillofacial pathology(fourth edition)by Neville,Damm,Allen & Chi Oral pathology (fourth edition)by Soames & Southam Rosai & Ackerman's surgical pathology(tenth edition) by Juan Rosai Also many important case reports published in dental journals				
Electronic References, Websites	Cawson's Essentialis of oral pathology & oral medicine(ninth edition) by E.W.Odell				





Theory

exam

Theory lectures

Course Description Form

			1			
1.	1. Course Name:					
		Prostho	odontics			
2.	Cour	se Code:				
		406 I	PROS			
3.	Seme	ester / Year:				
		Fourt	h year			
4.	Desc	ription Preparation Date:				
		01 Mar	ch 2024			
5.	Avail	lable Attendance Forms:				
		Theoretical	and practical			
6.	Num	ber of Credit Hours (Total) / Nu	mber of Units (7	Total)		
Theore	etical	: 30 hours, practical: 90 hours. T	Total units: 6			
7.	Cour	se administrator's name (mentio	n all, if more tha	in one name	e)	
Name:	Lect	Dr Inas Aziz Mohammed				
Email:	inas	jawad2016@uomosul.edu.iq				
8.	Cour	se Objectives				
Cours	e	Educating and training student		-	-	
Objec	tives		_			
Q	Teacl	and techniques in the fabrication in the fabrication in the fabrication and Learning Strategies	on of complete a	na partiai a	entures.	
Strate			-4:1 1-14			
Strate	SJ	- Theory lectures and prac				
		 Educational videos and relationships 	utilization of sma	art boards.		
		 Use of educational mode 	els.			
	 Focused student group discussion. 					
10. C	ourse	Structure				
Theore	etical	Part				
Week	Hr	Required Learning Outcomes	Unit or subject	Learning	Evaluation	
			name	method	method	

Prosthodontics

Anatomy and physiology as related to dental prosthesis

(osteology)

1





2	1	Anatomy and physiology as related to dental prosthesis	Prosthodontics	Theory lectures	Theory exam
		(Myology)		10000105	CAMITI
3	1	Diagnosis and treatment plan for	Prosthodontics	Theory	Theory
		RPD		lectures	exam
4	1	Diagnosis and treatment	Prosthodontics	Theory	Theory
		(continued)		lectures	exam
5	1	Preparation of the mouth to	Prosthodontics	Theory	Theory
		receive an RPD		lectures	exam
6	1	Preparation of the mouth to	Prosthodontics	Theory	Theory
		receive an RPD (Continued).		lectures	exam
7	1	Classification of impression	Prosthodontics	Theory	Theory
		technique		lectures	exam
8	1	Classification of impression	Prosthodontics	Theory	Theory
		technique (continued)		lectures	exam
9	1	Designing Support	Prosthodontics	Theory	Theory
		Designing Support		lectures	exam
10	1	Fitting the removable partial	Prosthodontics	Theory	Theory
		denture framework		lectures	exam
11	1	Occlusal Relationship	Prosthodontics	Theory	Theory
		forRemovable Partial Denture		lectures	exam
12	1	Jaw relation in RPD	Prosthodontics	Theory	Theory
		Jaw Telation in IQ D		lectures	exam
13	1	Trial RPD	Prosthodontics	Theory	Theory
		THUI KI D		lectures	exam
14	1	Initial placement and adjustment	Prosthodontics	Theory	Theory
		of RPD		lectures	exam
15	1	Pre- prosthetic surgery	Prosthodontics	Theory	Theory
		The productic surgery		lectures	exam
16	1	Pre-prosthetic Surgical	Prosthodontics	Theory	Theory
		Considerations (Continued).		lectures	exam
17	1	Diagnosis and treatment plan CD	Prosthodontics	Theory	Theory
		Diagnosis and deather plan CD		lectures	exam
18	1	diagnosis and treatment plan for	Prosthodontics	Theory	Theory
		CD (continued)		lectures	exam
19	1	Impression in CD	Prosthodontics	Theory	Theory
		impression in CD		lectures	exam
20	1	TMJ and mandibular movement.	Prosthodontics	Theory	Theory
		11413 and mandioular movement.		lectures	exam





21	1	Digital RPD	Prosthodontics	Theory	Theory
		Digital KFD		lectures	exam
22	1	Vartical javy relation	Prosthodontics	Theory	Theory
		Vertical jaw relation		lectures	exam
23	1	Horizontal jaw relation (Centric	Prosthodontics	Theory	Theory
		occlusion)		lectures	exam
24	1	Try in stage in CD	Prosthodontics	Theory	Theory
		Try in stage in CD		lectures	exam
25	1	Insertion of CD	Prosthodontics	Theory	Theory
		Insertion of CD		lectures	exam
26	1	A dissatus ante of CD	Prosthodontics	Theory	Theory
		Adjustments of CD		lectures	exam
27	1	Post insertion complications in	Prosthodontics	Theory	Theory
		CD		lectures	exam
28	1	relining and rehasing of CD	Prosthodontics	Theory	Theory
		relining and rebasing of CD		lectures	exam
29	1	Domain of frontuned DDD	Prosthodontics	Theory	Theory
		Repair of fractured RPD		lectures	exam
30	1	Esthetic denture materials	Prosthodontics	Theory	Theory
		Estrictic defiture materials		lectures	exam

Clinical Part

The students are required to complete the following requirements:-

First term clinic (45 hours) – 3 hr/week

- a. Impression for partially edentulous patient
- b. Impression for edentulous patient

Partial Denture

c. Bounded partial denture

Second term clinic (45 hours) – 3 hr/week

a. Complete Denture

11. Course Evaluation

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





10 I ' 1 T 1' D	
12.Learning and Teaching Resources	
Required textbooks (curricular books, if	
any)	Removable Partial Prosthodontics,
	13th edition2016 by Elsevier, Inc.
	Zarb, Hobkirk, Eckert, Jacob et al.
	Prosthodontic treatment for edentulous
	patients: Complete dentures and
	implant-supported prostheses.13th
	edition 2013 by Mosby, Elsevier Inc.
	Phoenix, Cagna, DeFreest. Stewart's
	Clinical Removable Partial
	Prosthodontics, 4th edition, 2008
	Quintessence Publishing Co, Inc.
Main references (sources)	Golden and Driscoll. Treating the
	complete denture patient. 1st edition
	2020 John Wiley & Sons, Inc.
	Rahn, Ivanhoe and Plummer.
	Textbook of complete dentures. 6th
	edition 2009 People's Medical
	Publishing House-USA.
	Veeriayan, Ramalingam, Bhat.
	Textbook of Prosthodontics. 1st
	edition 2003 Jaypee Brothers Medical
	Publishers (p) Ltd.
	Jones and Garcia. Removable Partial
	Dentures a clinician's guide. 1st
	edition, A John Wiley and Sons, Inc.,
	Publication.
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	



1

1

Diabetes Mellitus

White Blood Cells Disorders



Course Description Form

			-p			
1. C	1. Course Name:					
		General	Medicine			
2. C	Cours	se Code:				
		407 G	MED			
3. S	eme	ester / Year:				
		Fourt	h year			
4. D)esci	ription Preparation Date:				
			ch 2024			
5. A	vail	able Attendance Forms:				
		Theoretical	and practical			
6. N	Juml	ber of Credit Hours (Total) / Nu	mber of Units (T	Total)		
Theoret	tical:	30 hours, Total units: 2				
7. C	Cours	se administrator's name (mentio	n all, if more tha	n one name	2)	
		Dr Waqas Saad Thanoon				
		as.Saad@umosul.edu.iq				
8. C	Cours	se Objectives				
Course		Teaching theoretical subjects r			ınd	
Objecti	ives	providing students with genera	il medical knowl	edge		
9. T	eacl	ning and Learning Strategies				
Strateg	y	- Theory lectures.				
		 Educational videos and 	utilization of sma	art boards.		
	 Use of educational models. 					
	 Focused student group discussion. 					
10. Co	urse	Structure				
Theoret	tical	Part				
Week	Hr	Required Learning Outcomes	Unit or subject	Learning	Evaluation	
			name	method	method	

Medicine

Medicine

Theory

lectures

Theory

lectures

Theory

Theory

exam

exam





3	1	Hemostasis and Bleeding	Medicine	Theory	Theory
4	1	Disorders	N/ 1' '	lectures	exam
4	1	Adrenal Gland Disorders	Medicine	Theory	Theory
	1		3.6.41.1	lectures	exam
5	1	Gastrointestinal Diseases	Medicine	Theory	Theory
	1)	lectures	exam
6	1	Inflammatory Bowel Disease	Medicine	Theory	Theory
		3		lectures	exam
7	1	Pseudomembranous Colitis	Medicine	Theory	Theory
		r coudemonistances contic		lectures	exam
8	1	Hypertension	Medicine	Theory	Theory
		Trypercusion		lectures	exam
9	1	Infective Endocarditis	Medicine	Theory	Theory
		infective Endocarditis		lectures	exam
10	1	Ischemic Heart Disease	Medicine	Theory	Theory
		Ischemic Heart Disease		lectures	exam
11	1	Heart Failure	Medicine	Theory	Theory
		Heart Failure		lectures	exam
12	1	Caudia Audadhuria	Medicine	Theory	Theory
		Cardiac Arrhythmias		lectures	exam
13	1	There id Discours	Medicine	Theory	Theory
		Thyroid Diseases		lectures	exam
14	1	Vilan Diagram	Medicine	Theory	Theory
		Kidney Diseases		lectures	exam
15	1	I 1 ' D'	Medicine	Theory	Theory
		Immunologic Diseases		lectures	exam
16	1	T. D.	Medicine	Theory	Theory
		Liver Diseases		lectures	exam
17	1	n i D'	Medicine	Theory	Theory
		Pulmonary Diseases		lectures	exam
18	1	D 1D1 1G11 D' 1	Medicine	Theory	Theory
		Red Blood Cells Disorders		lectures	exam
19	1	D 141 1 1 1	Medicine	Theory	Theory
		Drug and Alcohol Abuse		lectures	exam
20	1	V 1 : 5: 1	Medicine	Theory	Theory
		Neurologic Disorders		lectures	exam
21	1	Cardiac Arrhythmias	Medicine	Theory	Theory
				lectures	exam
L	1	1	i .	1	ı





1	Thyroid Diseases	Medicine	Theory	Theory
			lectures	exam
1	Kidney Diseases	Medicine	Theory	Theory
			lectures	exam
1	Immunologic Diseases	Medicine	Theory	Theory
			lectures	exam
1	Liver Diseases	Medicine	Theory	Theory
			lectures	exam
1	Pulmonary Diseases	Medicine	Theory	Theory
			lectures	exam
1	Red Blood Cells Disorders	Medicine	Theory	Theory
			lectures	exam
1	Drug and Alcohol Abuse	Medicine	Theory	Theory
			lectures	exam
1	Psychiatric Disorders	Medicine	Theory	Theory
			lectures	exam
1	Anxiety and Eating Disorders	Medicine	Theory	Theory
			lectures	exam
	1 1 1 1	1 Kidney Diseases 1 Immunologic Diseases 1 Liver Diseases 1 Pulmonary Diseases 1 Red Blood Cells Disorders 1 Drug and Alcohol Abuse 1 Psychiatric Disorders	1 Kidney Diseases Medicine 1 Immunologic Diseases Medicine 1 Liver Diseases Medicine 1 Pulmonary Diseases Medicine 1 Red Blood Cells Disorders Medicine 1 Drug and Alcohol Abuse Medicine 1 Psychiatric Disorders Medicine	Red Blood Cells Disorders Medicine Theory lectures Pulmonary Diseases Medicine Theory lectures Red Blood Cells Disorders Medicine Theory lectures Drug and Alcohol Abuse Medicine Theory lectures Psychiatric Disorders Medicine Theory lectures Psychiatric Disorders Medicine Theory lectures Psychiatric Disorders Medicine Theory lectures Anxiety and Eating Disorders Medicine Theory lectures

11. Course Evaluation

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

12.Learning and Teaching Resources

Required textbooks (curricular books, if	
any)	1. Dental Management of the
	Medically Compromised Patient,
	Ninth Edition, 2018
	2. Essentials of Medicine for Dental
	Students
Main references (sources)	
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	





			-puon i	71 111		
1.	Cour	se Name:				
	General Surgery					
2.	Cour	se Code:				
		408 (GSUG			
3.	Seme	ester / Year:				
		Fourt	h year			
4.	Desc	ription Preparation Date:				
		01 Mar	ch 2024			
5.	Avail	lable Attendance Forms:				
		Theoretical				
6.	Num	ber of Credit Hours (Total) / Nu	ımber of U	Inits (Total)		
Theore	etical	: 30 hours, Total units: 2				
7.	Cour	se administrator's name (mentio	n all, if mo	ore than one na	me)	
Name:	Lect	Dr Sufyan Humadee				
		an_humadee@uomosul.edu.iq				
8.	Cour	se Objectives				
Cours	e	Teaching theoretical subjects r	_		and providing	
Objec	tives	students with general surgery l	knowledge	;		
9.	Teacl	hing and Learning Strategies				
Strate	gy	- Theory lectures.				
		 Educational videos and 	utilization	of smart board	S.	
	 Use of educational models. 					
	 Focused student group discussion. 					
10. C	ourse	Structure				
Theore	etical	Part				
Week	Hr	Required Learning Outcomes	Unit or	Learning	Evaluation	
			subject	method	method	
1	2	Preoperative preparation (History	name Surgery	Theory lectures	Theory exam	
1		1 reoperative preparation (riistory	Burgery	Theory lectures	Theory exam	

Surgery

Theory lectures Theory exam

Taking)

Parenteral feeding





3	1	Fluid balance	Surgery	Theory lectures	Theory exam
4	1	Blood transfusion	Surgery	Theory lectures	Theory exam
5	1	Wound healing	Surgery	Theory lectures	Theory exam
6	1	Surgical wound infections	Surgery	Theory lectures	Theory exam
7	2	Anesthesia & Pain	Surgery	Theory lectures	Theory exam
8	2	Perioperative care	Surgery	Theory lectures	Theory exam
9	2	Postoperative care	Surgery	Theory lectures	Theory exam
10	2	General postoperative problems	Surgery	Theory lectures	Theory exam
		and management			
11	1	Metabolic response to injury	Surgery	Theory lectures	Theory exam
12	1	Shock	Surgery	Theory lectures	Theory exam
13	1	Hemorrhage	Surgery	Theory lectures	Theory exam
14	2	Electrolytes balance	Surgery	Theory lectures	Theory exam
15	2	Head injury	Surgery	Theory lectures	Theory exam
16	2	Day case surgery	Surgery	Theory lectures	Theory exam
17	2	Surgical ethics and law	Surgery	Theory lectures	Theory exam
18	2	Patient safety	Surgery	Theory lectures	Theory exam
11.0		T 1 .'			

11.Course Evaluation

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

Required textbooks (curricular books, if any) Recommended books and references (scientific journals, reports...) Electronic References, Websites Required textbooks (curricular books, if any baily and Love's short practice of surgery 27th edition 2018 Baily and Love's short practice of surgery 27th edition 2018 Electronic References (sources) Electronic References, Websites





	P				
1. Course Name:					
Paediatric Dentistry					
2. Course Code:					
	409 PED				
3. Seme	3. Semester / Year:				
Fourth year					
4. Desc	4. Description Preparation Date:				
01 March 2024					
5. Available Attendance Forms:					
Theoretical and practical					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theoretical	Theoretical: 30 hours, practical: 90 hours. Total units: 6				
7. Cour	7. Course administrator's name (mention all, if more than one name)				
Email: Ghufran_Muhammed@uomosul.edu.iq					
	se Objectives				
Course	Educating and training students on the proper scientific principles and				
Objectives	methods for treating pediatric patients, including the use of modern				
	materials and techniques in the treatment of children.				
9. Teaching and Learning Strategies					
Strategy	- Theory lectures and practical laboratories.				
	 Educational videos and utilization of smart boards. 				
	 Use of educational models. 				
	 Focused student group discussion. 				





10. Course Structure

Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject	Learning	Evaluation
			name	method	method
1	1	Eruption of teeth, normal	Eruption of teeth	Theory	Theory
		eruption process		lectures	exam
2	1	Teething and difficult eruption	Eruption of teeth	Theory	Theory
				lectures	exam
3	1	Eruption haematoma, sequestrum	Eruption of teeth	Theory	Theory
		,ectopic eruption		lectures	exam
4	1	Epstein pearls, Bohn nodules,	Eruption of teeth	Theory	Theory
		Dental lamina cysts, Shedding of		lectures	exam
		the primary teeth, Mechanism of			
		resorption and shedding, Factors causes differences in time			
		of eruption			
5	1	Systemic (disease) Factors which	Eruption of teeth	Theory	Theory
		cause late eruption Deciduous		lectures	exam
		Dentition Period, Ugly Duckling			
6	1	Stage Morphology of the primary teeth	Morphology of	Theomy	Theory
O	1	Morphology of the primary teeth	1 0,	Theory	Theory
7	1	Name also amb also ay of all mimory	the primary teeth	lectures	exam Theory
/	1	Normal morphology of all primary teeth and their clinical	Morphology of the primary teeth	Theory lectures	Theory
		consideration	the primary teeth	lectures	exam
8	1	Morphological differences	Morphology of	Theory	Theory
		between primary and permanent	the primary teeth	lectures	exam
	1	teeth		TO 1	701
9	1	Functions of primary teeth	Functions of	Theory	Theory
1.0			primary teeth	lectures	exam
10	1	Dental caries; Definition and Classification	Dental caries	Theory	Theory
- 1 1			D . 1	lectures	exam
11	1	Rampant dental caries, Early	Dental caries	Theory	Theory
1.0		childhood caries,	D ()	lectures	exam
12	1	Restorative dentistry for children	Restorative	Theory	Theory
		Isolation & maintenance of dry field and application of the rubber	dentistry	lectures	exam
		Dam			
13	1	Morphological consideration	Restorative	Theory	Theory
		,cavity preparation Cavity	dentistry	lectures	exam
		preparation on primary teeth,			





14	1	Restorative materials used on	Restorative	Theory	Theory
		pediatric dentistry	dentistry	lectures	exam
15	1	Matrices & retainers	Matrices &	Theory	Theory
			retainers	lectures	exam
16	1	Chrome steel crowns, ART	Crowns	Theory	Theory
				lectures	exam
17	1	Treatment of deep caries	Deep caries	Theory	Theory
				lectures	exam
18	1	Indirect pulp treatment	Deep caries	Theory	Theory
				lectures	exam
19	1	Vital pulp therapy pulpotomy	Pulpotomy	Theory	Theory
				lectures	exam
20	1	Non vital pulp therapy technique	Non vital pulp	Theory	Theory
				lectures	exam
21	1	Reaction of pulp to various	Non vital pulp	Theory	Theory
		capping material		lectures	exam
22	1	Local anesthesia and pain	Local anesthesia	Theory	Theory
		control for children		lectures	exam
		Type of space maintainer (indication and contraindication and contraindication			
23	1	Anesthetizing mandibular and	Local anesthesia	Theory	Theory
		maxillary teeth and soft tissue		lectures	exam
24	1	complications after a local	Local anesthesia	Theory	Theory
		anesthetic		lectures	exam
25	1	supplemental injection techniques	Local anesthesia	Theory	Theory
		_		lectures	exam
26	1	Oral surgery for children,	Oral surgery	Theory	Theory
		indication and contraindications		lectures	exam
		for extraction of primary teeth,			
27	1	technique for extraction of	Oral surgery	Theory	Theory
		primary teeth		lectures	exam
28	1	extraction complications	Oral surgery	Theory	Theory
				lectures	exam





13Hypodontia among childrenSeminarExa23Anodontia among childrenSeminarExa33Rampant caries among childrenSeminarExa43Staining among childrenSeminarExa	aluatio nethod nems nems nems
Survey of teeth extracted Survey of teeth extracted	aluationethod ams ams ams ams ams
30 1 Infections manifestation and management Oral surgery Theory lectures Example	aluatio nethod ams ams ams
Practical part Week Hr Laboratory subject Learning method n m 1	aluatio nethod ams ams ams
Practical partWeekHrLaboratory subjectLearning methodEvaluation13Hypodontia among childrenSeminarExaluation23Anodontia among childrenSeminarExaluation33Rampant caries among childrenSeminarExaluation43Staining among childrenSeminarExaluation	aluatio nethod ams ams ams ams
WeekHrLaboratory subjectLearning methodEvante method13Hypodontia among childrenSeminarExangle Exangle Exangl	ams ams ams ams ams
methodn m13Hypodontia among childrenSeminarExa23Anodontia among childrenSeminarExa33Rampant caries among childrenSeminarExa43Staining among childrenSeminarExa	ams ams ams ams ams
1 3 Hypodontia among children Seminar Exa 2 3 Anodontia among children Seminar Exa 3 3 Rampant caries among children Seminar Exa 4 3 Staining among children Seminar Exa	ams ams ams ams
2 3 Anodontia among children Seminar Exa 3 3 Rampant caries among children Seminar Exa 4 3 Staining among children Seminar Exa	ams ams ams
3 3 Rampant caries among children Seminar Exa 4 3 Staining among children Seminar Exa	ams ams
4 3 Staining among children Seminar Exa	ams ams
	ams
5 3 Types of Caries removal techniques Seminar Exa	ıms
6 3 Restoration of primary and young permanent teeth with variety types of restorative materials Exa	
7 3 Rubber dam Seminar Exa	ıms
8 3 Minor oral surgery Seminar Exa	ıms
9 3 Thumb sucking habits Seminar Exa	ıms
10 3 Pulp therapy for permanent dentition Seminar Exa	ıms
11 3 Pulp therapy for primary dentition Seminar Exa	ıms
12 3 Materials used for pulp therapy Seminar Exa	ıms
13 3 Crowns in pediatric dentistry Seminar Exa	ıms
14 3 Nail biting among children Seminar Exa	ıms
15 3 Maintenance of pulp vitality by use of regenerative materials Exa	ıms
16 3 Root canal treatment for anterior non vital teeth Seminar Exa	ams
17 3 Root canal treatment Seminar Exa	ıms
18 3 Management of molar incisor Seminar Example hypomineralization MIH	ıms
19 3 Behavior management for young patients Seminar Exa	ıms
20 3 Infection control re-assurance and guidance of Seminar Exa	ıms
21 3 Tooth colored restoration technique Seminar Exa	ams
22 3 Radiographic prescription and interpretation of results Exa	ıms
23 3 Space maintainers Seminar Exa	ims
24 3 Fluoride application as a preventive measure Seminar Exa	ims
25 3 Cleft lip and palate Seminar Exa	ıms
26 3 Supernumerary teeth and their impact on teeth eruption Exa	ıms
27 3 Management of medically compromised children Seminar Exa	ıms





28	3	Diagnosis and treatment plan	Seminar	Exams
29	3	ART technique	Seminar	Exams
30	3	Periodontal diseases in children	Seminar	Exams

11.Course Evaluation

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

as daily proparation, daily star, monthly, or written exams, reports etc			
12.Learning and Teaching Resources			
Required textbooks (curricular books, if any)	child and adolescent 2022 by Elsevier Hand book of pediatric dentistry		
	(Cameron) Mosby		
Main references (sources)			
Recommended books and references (scientific journals, reports)			
Electronic References, Websites			





Course Description - Fifth Year Course Description Form

1. Cour	se Name:				
1. Court	Periodontology				
2. Course Code:					
2. 0041	501 PERI				
3. Seme	ester / Year:				
	Fifth year				
4. Descr	ription Preparation Date:				
	01 March 2024				
5. Avail	lable Attendance Forms:				
	Theoretical and practical				
6. Num	ber of Credit Hours (Total) / Number of Units (Total)				
Theoretical	: 30 hours, practical: 90 hours. Total units: 6				
7. Cours	se administrator's name (mention all, if more than one name)				
Name: Lect	urer Dr Gayath Abdulbarry Al-Jawadi				
Email: ghay	vathaljawady@uomosul.edu.iq				
8. Cours	se Objectives				
Course	- Introduction to clinical periodontics.				
Objectives	- Study the aitiology of pocket formation and loss of attachement.				
	- Study the principle of root planning hand instruments, grasping and				
	support.				
	- Study the principles of ultrasonic scaling and polishing.				
9. Teacl	hing and Learning Strategies				
Strategy	- Theory lectures and practical laboratories.				
	 Educational videos and utilization of smart boards. 				
	 Use of educational models. 				
	 Focused student group discussion. 				





10. Course Structure

Theoretical Part

Theoretical Part							
Week	Hr	Required Learning Outcomes	Unit or	Learning	Evaluation		
			subject name	method	method		
1	1	 Periodontal examination and diagnosis Overall appraisal of the patient Medical history: Chief complaint Photographic documentation Clinical Examination: Extraoral examination Intraoral examination Examination of the periodontium Visual examination of biofilm and calculus Visual examination of the gingiva Probing force and angulation Periodontal examination: Suppuration Probing around implants Bleeding on probing Attachment loss and level Attached gingiva Wasting disease of the teeth Tooth mobility Furcation involvement Trauma from occlusion Pathologic migration of the teeth Radiographic examination Laboratory aids to clinical 	Periodontal examination and diagnosis	Theory lectures	Theory exam		
2	1	diagnosis Bone loss and patterns of bone destruction Bone destruction caused by the extension of gingival inflammation: Histopathology Rate of bone loss Mechanisms of bone destruction	Bone loss	Theory lectures	Theory exam		





	30213				
		Bone destruction caused by trauma from occlusion Bone destruction caused by			
		systemic disorders			
		Factors determining bone			
		morphology in periodontal disease:			
		Normal variation in alveolar bone			
		Exostoses			
		Trauma from occlusion			
		Buttressing bone formation			
		Food impaction			
		Bone destruction patterns in			
		periodontal disease:			
		Horizontal bone loss			
		Vertical or angular defects			
		Osseous craters			
		Bulbous bone contours			
		Reversed architecture			
		Ledges			
		Furcation involvement	7 11 1 1		
3	1	Radiographic aids in the diagnosis	Radiographic	Theory	Theory
		of periodontal disease	aids	lectures	exam
		Normal interdental bone			
		Radiographic techniques Bone Loss:			
		Amount Distribution			
		Radiographic appearance of			
		periodontal disease			
		Periodontitis			
		b Interdental craters			
		Furcation involvement			
		Periodontal abscess			
		Clinical probing			
		Trauma from occlusion			
		Digital intraoral radiography			
4	1	Advanced diagnosis	Advanced	Theory	Theory
		- Objectives of diagnosis	diagnosis	lectures	exam
		 Advances in periodontal 	8		
		probing			
		Generations of periodontal probes			
		First-generation (conventional)			
		probes			
		Second-generation (constant-			
		pressure sensitive probe			
		Pressure-sensitive probe			





Electronic pressure-sensitive (Yeaple) probe Third-generation (automated) probes: Foster-Miller probe Florida Probe® Toronto Automated probe InterProbe[™] Fourth-generation probes: Three-dimensional (3D) probes Fifth-generation probes: i- UltraSonographic (US) probe Advances in microbiologic/biochemical analyses Conventional culture techniques Molecular biology techniques: DNA-analysis method Checkboard DNA-DNA hybridization Polymerase Chain Reaction (PCR) Immunologic-based tests for putative pathogens: Immunofluorescent microscopy ELISA Flow cytometry Latex agglutination test Microbiologic enzyme assay Advances in characterizing host response Assessment of the susceptible host using makers in peripheral blood Identification of host constituent in **GCF** Salivary biomarkers Subgingival temperature Advanced Imaging Modalities Conventional radiograph Digital radiograph Subtraction radiography Computer-assisteddensitometric-imageanalysis (CADIA) Cone Beam Computed Tomography (CBCT)





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5	1	Periodontal response to external	Periodontal	Theory	Theory
		forces	response	lectures	exam
		Occlusion Assessment of occlusion			
		Adaptive capacity of the			
		1 1			
		periodontium to occlusal forces Trauma from occlusion:			
		Classification of trauma from			
		occlusion: i- Acute and chronic			
		ii- Primary and secondary			
		Stages of tissue response to			
		trauma from occlusion:			
		Stage I: Injury			
		Stage II: Repair			
		Stage III: Adaptive remodeling of			
		the periodontium			
		Relationship between plaque-			
		induced periodontal diseases			
		and trauma from occlusion			
		Clinical and radiographic signs of			
		trauma from occlusion			
		Pathologic tooth migration:			
		Pathogenesis:			
		- Weakened periodontal support i- Changes in the forces exerted on			
		the teeth			
		- Treatment			
6	1	Immunology	Immunology	Theory	Theory
		Innate immunity	23	lectures	exam
		Components of innate immunity:		lectares	Chair
		Saliva:			
		Salivary peroxidase system			
		Lactoferrin			
		Lysozyme			
		Gingival epithelial barrier			
		- Gingival crevicular fluid			
		Pathogen recognition and			
		activation of cellular innate			
		responses:			
		i- Toll like receptors ii- Pro inflammatory cytokines			
		1			
		Cells of innate immunity: Neutrophils			
		Macrophages			
7	1	Immunology	Immunology	Theory	Theory
,	•	Adaptive immunity		lectures	exam
<u> </u>		1		rectures	CAGIII





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		Characteristics Cellular elements Cellular immunity to dental plaque The humoral response to plaque Osteo-immunology in periodontal diseases Therapeutic Strategies			
8	1	Tooth mobility Introduction Types: Physiologic mobility Pathologic mobility Directions of movement: Horizontal Vertical Factors influencing tooth mobility Classification of tooth mobility Initial & secondary tooth mobility Initial & secondary tooth mobility Sign & symptoms Treatment: Situation I: Increased mobility of a tooth with increased width of PDL but normal height of the alveolar bone Situation II: Increased mobility of a tooth with increased width of PDL & reduced height of alveolar bone Situation III: Increased mobility of a tooth with reduced height of alveolar bone & normal width of PDL Situation IV: progressive mobility of a tooth (teeth) as a result of gradually increasing width of PDL in teeth with reduced height of alveolar bone Situation V: Increased bridge	Tooth mobility	Theory lectures	Theory exam
9	1	mobility despite splinting Epidemiology of periodontal diseases - Introduction: The need for epidemiology - Measuring the occurrence of conditions or diseases:	Epidemiology	Theory lectures	Theory exam





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		o Prevalence			
		o Risk			
		o The odds			
		o Incidence			
		- Typical measurement of			
		periodontal disease			
		- True and surrogate measures of			
		the periodontal condition			
		- Epidemiologic study designs:			
		 Randomized controlled trials 			
		 Cohort studies 			
		 Case–control studies 			
		- Suspected modifiable causative			
		factors for periodontal disease:			
		 Tobacco smoking 			
		o Nutrition			
		Dental plaque			
10	1	Determination of prognosis	Determination	Theory	Theory
		- Definitions	of prognosis	lectures	exam
		- Types of prognosis	1 0	icetares	C/Au111
		- Overall versus individual tooth			
		prognosis			
		- Detrimental factors:			
		 Overall clinical factors: 			
		i. Patient age			
		ii. Disease severity			
		iii. Biofilm control			
		iv. Patient compliance			
		 Systemic and environmental 			
		factors:			
		i. Smoking			
		ii. Systemic disease or condition			
		iii. Genetic factors			
		iv. Stress			
		 Local factors 			
		i. Biofilm and calculus			
		Subgingival restorations			
		Anatomic factors			
		i- Short, tapered roots			
		ii- Cervical enamel projections			
		iii-Enamel pearls			
		iv-Bifurcation ridges			
		v- Root concavities			
		vi-Developmental grooves			
		vii- Root proximity			
		viii- Furcation invasion			





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		ix-Tooth mobility			
		x- Caries			
		xi-Tooth vitality			
		xii- Root resorption			
		 Prosthetic and Restorative 			
		Factors			
		- Prognosis of specific periodontal			
		diseases:			
		 Prognosis for patients with 			
		gingival disease:			
		<i>i</i> - Biofilm-induced gingival			
		diseases			
		ii- Prognosis for patients with			
		periodontitis §			
		- Determination and reassessment			
		of prognosis			
11	1	Interrelationships of periodontal	Interrelationshi	Theory	Theory
		disease and therapy with other	ps of	lectures	exam
		dental disciplines	periodontal	rectares	Схат
		Restorative interrelationships	disease and		
		- Biologic considerations:	therapy		
		3.6 1 1 1 1111	therapy		
		 Margin placement and biologic width 			
		Biologic width evaluation			
		 Margin placement guidelines 			
		 Marginal fit 			
		 Crown contour 			
		- Aesthetic tissue management:			
		 Managing 			
		 interproximal embrasures 			
		 Pontic design 			
		o Correcting			
		open gingival			
		embrasures			
		Periodontal – orthodontic			
		interaction			
		- Orthodontic tooth movement			
		in adults with periodontal tissue breakdown			
		- Orthodontic treatment			
		considerations			
		Periodontal surgery associated with			
		ortho therapy Prosthodontic and			
		Periodontic interaction			





	30273				
12		Periodontal surgery. General principles Rationale for periodontal surgery Indications Contraindication Surgical instruments Excisional and incisional instruments Periodontal knives (gingivectomy knives) Interdental knives Surgical blades Surgical curettes and sickles Periosteal elevators Surgical chisels Tissue forceps Scissors and nippers Needleholders Additional instruments Fundamentals of periodontal	Periodontal surgery	Theory lectures	Theory exam
		Additional instrumentsFundamentals of periodontal			
		surgery:			
		o Incisions:			
		i- Horizontal incisions ii- Vertical incisions			
		- Papilla management			
		Flap elevation			
13	1	Sonic and ultrasonic	Sonic and	Theory	Theory
		instrumentation and irrigation	ultrasonic	lectures	exam
		- Power-driven instruments:	instrumentatio		
		overview	n		
		- Mechanism of action of			
		power scalers			
		Type of power instrumentsMechanized instruments			
		vs manual instruments			
		- Clinical outcomes of			
		power-driven instruments:			
		 Special considerations 			
		 Root surface roughness 			
		Aerosol production			
		o Cardiac pacemakers			
		- Principles of instrumentation			
		- Power-driven devices and			





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		COVID-19- associated			
		limitations			
		- Irrigators:			
		 Mechanism of action of 			
		irrigation			
		 Clinical outcomes of 			
		irrigation			
		Individuals with special			
		considerations			
14	1	Gingivectomy and local	Gingivectomy	Theory	Theory
		excision		lectures	exam
		- Gingivectomy:		rectares	C/X4111
		 Indications and 			
		contraindication			
		 Advantages and 			
		disadvantages			
		Surgical procedure			
		- Gingivoplasty			
		- Gingival curettage			
		- Periodontal dressings			
		(Periodontal Packs)			
		o Zinc oxide–eugenol			
		dressing			
		Non-eugenol dressing			
		- Postoperative instructions			
		Management of postoperative pain			
15	1	Flap surgery	Flap surgery	Theory	Theory
		- Objectives, indication, and	1 5 5	lectures	exam
		contraindications		lectures	CAUIII
		- Flap techniques: §			
		 Modified Widman flap 			
		Undisplaced flap			
		 Apically displaced flap 			
		o Distal wedge flap			
		o Papilla preservation flap			
		- Full and partial thickness			
		flap			
		- Osteoplasty			
		- Suturing techniques			
16	1	Mucogingival and aesthetic	Mucogingi	Theory	Theory
		surgery	val and	lectures	exam
		- Objectives	aesthetic		
		- Techniques to increase	surgery		
		attached gingiva:	_		
		o Gingival augmentation apical			
		to recession:			
l-		•			





	243)				
		i- Free gingival graft			
		ii- Free connective tissue graft			
		iii-Apically displaced flap §			
		 Gingival augmentation 			
		coronal to recession			
		i- Free gingival graft			
		ii- Subepithelial connective			
		tissue graft			
		iii-Pouch and tunnel technique			
		- Techniques to deepen the			
		vestibule			
		- Techniques to remove the			
		frenum:			
		 Frenectomy and frenotomy: 			
		i- Procedure			
		- Techniques to improve			
		aesthetics:			
		o Root coverage			
		 Papilla reconstruction 			
		- Therapy to correct excessive			
		gingival display:			
		 Surgical techniques 			
		Osseous surgery			
		§ This technique has been			
		described sufficiently in			
		previous lecture. Brief reminder			
		of the concept and technique is			
		only required		-	
17	1	Furcation: involvement and	Furcation:	Theory	Theory
		treatment	involve	lectures	exam
		- Introduction	ment		
		- Anatomy of furcation area:	and		
		o Root complex	treatmen		
		o Root trunk	t		
		o Root cone			
		o Furcation entrance			
		- Local anatomic factors			
		- Classification of furcation			
		involvement			
		- Diagnosis:			
		o Clinical			
		o Radiographic analysis			
		- Differential diagnosis:			
		o Pulpal pathologies			
		o Trauma from occlusion			
		- Treatment:			





	المراب زدنان كا	,		1	المبر زكاليم
		Objectives			
		 Scaling and root planing 			
		 Furcation plasty 			
		 Tunnel preparation 			
		o Root			
		resection/separati			
		on, tooth division&			
		hemisection			
		 Tooth extraction 			
		o Treatment			
		guidelines			
		according to			
		degree of involvement			
		 Regeneration of Furcation Defects: 			
		i- Guided tissue regeneration			
		&Bone grafting			
		Failures of furcation therapy			
		- Prognosis			
18	1	Laser therapy	Laser therapy	Theory	Theory
10	1	Laser physics and biologic	Laser uncrapy	Theory	Theory
		interactions		lectures	exam
		- Laser Types:			
		D' 1 T			
		 Neodymium:Yttrium- Aluminum-Garnet Laser 			
		 Erbium:Yttrium-Aluminum- Garnet Laser 			
		E O MOOOT			
		CO I			
		- Laser applications in periodontics:			
		Aesthetic and pre-prosthetic			
		surgeries			
		SurgeriesNonsurgical periodontal			
		therapy:			
		i- Lasers in the management of			
		periodontitis			
		ii- Lasers in the management of			
		peri-implantitis			
		- Advantages and disadvantages			
		- Complications and risks of			
		laser therapy			
		§ Case scenario, questions about			
		decision whether using laser or not			
		should be formulated			





	المراب زدندي	,			الله زهاليا
19	1	Locally delivered, controlled- release antimicrobials - Objectives - Types:	Locally delivered, controlled -release antimicro bials	Theory lectures	Theory
		o Tobacco smoking			
20	1	Adverse effects Management of medically	Managana	The	Theory
20	1	Management of medically compromised patients Cardiovascular diseases: Hypertension Angina pectoris Myocardial infarction Previous cerebrovascular accident Congestive heart failure Cardiac pacemakers Infective endocarditis Renal disease Chemotherapy Management of medically	Management of medically compromised	Theory	Theory
21		Management of medically compromised patients Endocrine/metabolic disorders: Diabetes mellitus Thyroid disorders Adrenal Insufficiency Pregnancy Hemorrhagic disorders Blood dyscrasias Liver diseases Neurologic Disorders: Epilepsy	Management of medically compromised	Theory lectures	Theory exam





	البرانداد المديم			1	
		Infectious diseases:			
		COVID-19			
		Hepatitis			
		AIDS			
		Tuberculosis			
22	1	Gingival crevicular fluid (GCF)	Gingival	Theory	Theory
	1	Introduction	_	1	1
		Permeability of junctional and	crevicular fluid	lectures	exam
		sulcular epithelia			
		1			
		Function			
		Amount:			
		Methods for estimating GCF			
		amount			
		Composition:			
		Cellular elements			
		Electrolytes			
		Organic compounds			
		Methods of collection:			
		Absorbing paper strip:			
		i- Intra-crevicular method			
		ii- Extra-crevicular method			
		Crevicular washing			
		Micropipettes or capillary tubes			
		Cellular and humoral activity in			
		GCF			
		Clinical significance:			
		Circadian periodicity			
		Sex hormones			
		Mechanical stimulation			
		Smoking			
		Periodontal therapy			
		Drugs in GCF			
		GCF as a diagnostic/prognostic tool			
		for periodontal disease			
23	1	Dentin hypersensitivity	Dentin	Theory	Theory
		Introduction	hypersensitivit	lectures	exam
		Epidemiology	• 1		
		Etiology	У		
		Theories of dentin hypersensitivity:			
		Direct innervation			
		Odontoblast receptor			
		l =			
		Fluid movement/hydrodynamic			
		Diagnosis Massurament methods			
		Measurement methods			
		Prevention and management			
		Classification of desensitizing			
		agents:			





		- Mode of administration			
2.4	4	Mechanism of action	TC:	TI	TI
24	1	Tissue regeneration. General	Tissue	Theory	Theory
		principles Periodontal Wound	regeneration	lectures	exam
		Healing			
		Wound healing: Outcomes and			
		definitions			
		Healing patterns in the periodontal			
		tissues			
		Outcomes of periodontal wound			
		healing:			
		l- Repair			
		i- Reattachment			
		i-New attachment			
		v- Regeneration			
		y- Resorption			
		i- Ankylosis			
		Phases of wound healing:			
		Inflammation phase			
		Granulation phase			
		Matrix formation and remodeling			
		(maturation) phase			
		Factors that affect healing:			
		Local factors			
		Systemic factors Periodontal wound healing:			
		Healing after nonsurgical treatment			
		Healing after periodontal surgery: - Gingivectomy			
		- Flap operation			
		1 1			
		i- Grafting procedures			
		Healing after regenerative therapy			
		Healing after implant placement:			
		l- bone tissue interface			
2.5	1	Mucosal interface	D '	TI.	T1
25	1	Regenerative periodontal therapy	Regenerative	Theory	Theory
		Regenerative capacity of bone cells	periodontal	lectures	exam
		Regenerative capacity of gingival	therapy		
		connective tissue cells			
		Regenerative capacity of			
		periodontal ligament cells			
		- Role of epithelium in			
		periodontal wound healing			
		- The possible outcomes of			
		periodontal therapy			
		- Regenerative concepts:			
		 Grafting procedures 			
<u> </u>			1	1	1





	المرابد زدنابة				المناز المناز
		 Root surface biomodification Guided tissue regeneration Assessment of periodontal regeneration: Clinical assessment Pocket probing. Attachment level Gingival indices Alveolar bone level Radiographic methods Re-entry operations Histologic methods 			
26	1	Reconstructive surgical techniques: Non-bone graft associated new attachment: i- Principles ii- Procedure Bone Graft associated new attachment or combination of both approaches i- Types of bone graft: Autogenous graft Allograft Xenograft Alloplastic (synthetic) materials Guided tissue regeneration (principle, advantages, disadvantages, and indications)	Reconstructive surgical techniques	Theory lectures	Theory exam
27	1	Advanced regenerative approaches Enamel matrix Derivatives Acellular dermal matrix allograft Clinical applications of growth factors Cell therapy for periodontal regeneration Gene therapeutics for periodontal tissue repair Factors influencing the success or failure of all regeneration techniques	Advanced regenerative approaches	Theory lectures	Theory
28	1	Oral implantology Peri-implant anatomy and Peri- implant diseases classification - Introduction - Epithelial structure around natural tooth	Oral implantology	Theory lectures	Theory exam





 برندس:				300, 4
 9 1	 Epithelial structure around dental implant Structure of the interface between the tooth and gingivae Structure of the interface between implant and oral epithelium Structure of the interface between the implant and connective tissue Keratinized tissue (attached gingiva) around implant Clinical Comparison of Teeth and Implants Peri-implant health Peri-implant mucositis: Diagnosis Treatment Peri-implantology 	Oral	Theory	Theory
	Implant-related complications and failure Definitions of implant survival and success Types and prevalence of implant complications Surgical complications: Hemorrhage and hematoma Neurosensory disturbances Implant malposition Biologic Complications: Inflammation and proliferation Dehiscence and recession Peri-implantitis and bone loss Implant loss or failure Prosthetic or mechanical complications: Screw loosening and fracture Implant fracture Fracture of restorative materials Aesthetic and phonetic complications: Aesthetic complications	implantology	lectures	exam





	30313				3-2,1
		Phonetic problems			
30	1	Oral implantology Supportive	Oral	Theory	Theory
		implant treatment	implantology	lectures	exam
		Rationale for supportive implant			
		treatment			
		Examination of implants			
		Peri-implant probing			
		Microbial testing			
		Stability measures			
		Implant percussion			
		Radiographic examination			
		Assessment of peri-implant health			
		Evaluation of biofilm control			
		Evaluation of peri-implant health			
		and disease			
		Evaluation of implant			
		osseointegration			
		Evaluation of implant restorations			
		Implant maintenance			
		Methods for patient oral hygiene			
		Methods for professional recall			
		maintenance			
		Treatment of peri-implant diseases			
		Peri-implant mucositis			
		Peri-implantitis			
		Referral of patients to the			
		periodontist			
O1' '					

Clinical part

3 h/week (90 h/year)

- Recording medical and dental history
- Patient's education and motivation
- Oral hygiene instructions (OHI)
- Recording periodontal indices:
 - Bleeding on probing (BOP)
 - Plaque index (% of plaque)
 - Probing pocket depth (PPD)
 - Clinical attachment loss (CAL)
- For periodontitis cases, determination of bone loss level by radiograph or clinically
- Diagnosis according to classification of periodontal disease and conditions (2017)
- Non-surgical periodontal therapy (manual/ultrasonic scaling, root planing) and removal of all plaque retentive factors
- Referral of cases that potentially requiring surgical therapy
- Maintenance and follow-up after 3 months





Requirements:

- Recording periodontal indices and diagnosis (min= 15)
- Non-surgical periodontal treatment:
 - Scaling (min= 8)
 - Root planing (min= 3 teeth)

Periodontal surgery assistant (one case optional)

11. Course Evaluation

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

12.Learning and Teaching Resources	, 1
Required textbooks (curricular books, if any)	Mcdonald and avery's dentistry for child and adolescent 2022 by Elsevier Hand book of pediatric dentistry (Cameron) Mosby
Main references (sources)	
Recommended books and references (scientific journals, reports)	
Electronic References, Websites	





Course Description Form

Course Description Form				
1. Cours	se Name:			
	Preventive Dentistry			
2. Cours	se Code:			
	502 PRVD			
3. Seme	ester / Year:			
	Fifth year			
4. Descr	ription Preparation Date:			
	01 March 2024			
5. Avail	able Attendance Forms:			
	Theoretical and practical			
6. Num	ber of Credit Hours (Total) / Number of Units (Total)			
Theoreticals	: 30 hours, practical: 90 hours. Total units: 6			
7. Cours	se administrator's name (mention all, if more than one name)			
Name: Assi	st Lecturer Ahmed Salah Albasso			
Email: ahm	edalbaso@uomosul.edu.iq			
8. Cours	se Objectives			
Course	- Introduction to clinical preventive dentistry			
Objectives	- Study the aitiology of dental caries.			
	- Study the principle of caries prevention.			
	- Study the principles of periodontal disease prevention.			
9. Teacl	ning and Learning Strategies			
Strategy	 Theory lectures and practical laboratories. 			
	 Educational videos and utilization of smart boards. 			
	 Use of educational models. 			
	 Focused student group discussion. 			

10. Course Structure

Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Prevention of oral diseases (introduction)	Introduction	Theory lectures	Theory exam





	$\overline{}$				
		What is preventive dentistry?			
		prevention is better than a cure			
		Is preventive dentistry still			
		needed?			
		Levels of prevention			
		Caries prevention: how far it had			
		come in one century!			
2	1	Dental caries development	Dental caries	Theory	Theory
2	1	Etiology of dental caries	Demarcaries	lectures	exam
		Enology of dental caries		icciuics	CXaIII
		Inorganic and organic			
		components of tooth			
		1			
		Terminology of dental caries			
		Dynamics Process of De-			
		/Remineralization			
		 The development of a 			
		carious lesion			
		5			
		• Root caries			
		Clinical appearance of root			
		caries			
3	1	Classification of root caries	Diamagia of	T1	T1
3	1	Diagnosis of dental caries	Diagnosis of dental caries	Theory	Theory
		Detection systems of caries	dental cartes	lectures	exam
		visual and tactile examinations			
		Radiographic techniques			
		Electrical current measurement			
		(electronic resistant method)			
		Fiber Optic Transillumination			
		(FOTI and DiFOTI) (Enhanced			
		visual techniques)			
		Fluorescent techniques			
		Other techniques like Dyes,			
		Ultrasound techniques, Photo-			
		thermal Radiometry (PTR).			
4	1	Fluoride in Dentistry	Fluoride in	Theory	Theory
		• Introduction	Dentistry	lectures	exam
		Fluoride in Environment			
		Fluoride Metabolism (Absorption,			
		Distribution and Excretion of			
		Fluoride in the Body).			





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5	1	Fluorides in prevention and controlling dental caries • Mechanism of action • Fluoride's effect on tooth mineral Fluoride effect on plaque and bacterial metabolism	Fluorides in prevention	Theory lectures	Theory
6	1	Topical fluoride therapy Professionally applied fluoride Introduction Advantages and disadvantages of topical fluoride application Fluoride Compounds Classification of Professionally applied fluoride.	Topical fluoride therapy	Theory lectures	Theory exam
7	1	Topical fluoride therapy:Selfapplied fluoride • Requisites for self-applied fluoride agents • Fluoride dentifrices and Mechanism of Action Fluoride mouth rinses, Indications and Recommendations.	Fluorides in prevention	Theory lectures	Theory exam
8	1	 Safety and toxicity of fluoride Fluoride Toxicity Factors influencing acute toxicity Management of acute toxicity Recommendations for parents Chronic Toxicity(Dental fluorosis and bone fluorosis) 	Safety and toxicity of fluoride	Theory lectures	Theory exam
9	1	Dental sealants definition History indication and contraindication sealant in adult Ideal sealants materials Requisites for Sealant Retention	Dental sealants	Theory lectures	Theory exam





		 Sealant Placement Guidelines Fluoride-Releasing Sealants Glass ionomer sealants Colored Versus Clear Sealants Sealants for proximal enamel surfaces 			
10	1	Sealing over caries lesions New approach in restorative dentistry Minimally Invasive Treatment Technique Minimally Invasive Cavity Preparation Non-machinery Preparation LASER Chemo mechanical Caries Removal Preventive Resin Restorations Remineralization Treatment	New approach in restorative dentistry	Theory lectures	Theory exam
11	1	Microbiology of dental caries Microbial ecology in the oral cavity Acquisition of the resident oral microflora Site distribution of oral bacteria Ecological factors affecting the growth and metabolism of oral bacteria Dental biofilms: development, structure, composition and properties Development of dental biofilms Pellicle formation Microbial colonization	Microbiology of dental caries	Theory lectures	Theory exam





	المراج زدنان				3-2,11
		 Initial microbial colonization Microbial succession Microbial composition of the climax community (mature biofilm) Virulence of microorganisms Major dental cariesassociated bacteria Other caries-associated bacteria 			
12	1	Saliva and host defense mechanism Function of saliva Composition of saliva Salivary flow rate Influence of saliva on dental caries Oral immune system Non-specific immune factors Specific immune factors Immunization of dental caries	Saliva	Theory lectures	Theory
13	1	Caries risk assessment	Caries risk assessment	Theory lectures	Theory exam
14	1	infection control Transmission of infection Standard precautions Components of infection control Treatment room features Single use disposable instruments Biomedical waste management	infection control	Theory lectures	Theory exam
15	1	Oral hygiene measures (Mechanical)	Oral hygiene measure	Theory lectures	Theory exam





	المرابد زدناء				<u>10⊒, 40.</u>
		 Acquired pellicle Dental plaque Dental calculus Mechanical plaque control aids Toothbrushes Tooth brushing methods Powered toothbrush Objectives of toothbrushing Interdental Cleaning aids Dental floss Wooden tips Interdental brushes Miswak Oral irrigation devices Gingival massage 			
16	1	Oral hygiene measures	Oral hygie	ne Theory	Theory
		 (Chemical) Ideal properties of chemical plaque control agents Modes of action Chlorhexidine Triclosan Essential oil mouthwashes or Listerine Enzymes Sanguinarine extracts Metal ions Antibiotics Dentifrices Composition of dentifrices 	measures	lectures	exam
17	1	Diet and dental caries • Role of carbohydrates in caries development • Evidences • Factors affecting food cariogenicity • Physical form of food and clearance time • Types of fermentable carbohydrate • The basic Stephan curve	Diet and dental caries	Theory lectures	Theory





		Frequency of intake sugar and dental caries			
18	1	Non- sugar sweeteners	Diet and dental caries	Theory lectures	Theory
19	1	Testing food cariogenicity Dietary counseling in dental practice Nutritional status assessment Body Mass Index Assessment of dietary intake Objectives of dietary assessment 24-hour recall Dietary record Food frequency questionnaires Evaluation of cariogenic potentiall Evaluation of nutritive value Dietary counseling Approach to counseling	Diet and dental caries	Theory lectures	Theory exam
20	1	Motivation Nutrition and dental health Nutrition dental caries Systemic effect Morphology of the teeth The quality of the hard tissues Quality of saliva Evidences of the effect of some nutrients on dental caries Nutrition and eruption of teeth	Diet and dental caries	Theory	Theory





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21	1	Prevention of periodontal disease and oral cancer by nutrition Nutrition and periodontal health The mechanisms by which nutrition may affect periodontal disease Effect of food texture on periodontal health Nutrition and oral mucosal disease Nutrition and oral cancer	Prevention of periodontal disease	Theory lectures	Theory exam
		 Primary prevention 			
		Secondary prevention			
22	1	Probiotics and dental health	Probiotics	Theory	Theory
		 Caries-related mechanisms of probiotic activity 	and dental health	lectures	exam
		 Probiotics and counts of 			
		<u>mutans streptococci</u>			
		 Probiotics and caries 			
		occurrence			
22	1	Probiotics and periodontal health	Diagnosia	T1	T1
23	1	Diagnosis and prevention of dental erosion	Diagnosis and	Theory lectures	Theory
		Prevalence	prevention of	lectures	exam
		Early detection	dental erosion		
		• Etiology			
		Protection against erosion			
		Prevention of erosion			
24	1	Prevention of malocclusion	Prevention of	Theory	Theory
		 Normal development 	malocclusion	lectures	exam
		 Etiology of malocclusion 			
		Interceptive measures			
		• Tooth anomalies			
25	1	Risk assessment	Preventive	Th	These
25	1	Preventive measure for population with developmental disabilities	measure for	Theory lectures	Theory
		Disability definition	population	lectures	exam
		Classification of disabling	with		
		conditions	development		
		• The issues	al disabilities		
		regarding the			





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		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 Specialized Equipment for disabled patient management Dental care for Institutionalized disabled individual			
26	1	Preventive treatment strategies for medically compromised populations Introduction Eating disorders: Characteristics and preventive treatment strategies Depression: Characteristics and preventive treatment strategies Diabetes mellitus: Characteristics and preventive treatment strategies Diabetes mellitus: Characteristics and preventive treatment strategies Epilepsy: Characteristics and preventive treatment strategies Blood disorders: Characteristics and preventive treatment strategies	Preventive treatment strategies for medically compromised populations	Theory lectures	Theory exam
27	1	Ozone in the prevention of dental diseases	Ozone in the prevention of	Theory	Theory
		Definition and physical	dental	lectures	exam





	30213				3-2, 1
28	1	properties Mode of action Safety Application of ozone in dentistry Effects of ozone on oral microorganisms and oral cells Ozone for disinfecting dentures Ozone instruments designed for dentistry Ozone in the management of incipient caries Ozone in the management of open caries Treating root caries with ozone Geriatric dentistry	diseases	Theory	Theory
20		 population characteristics Physiologic Changes Functional status common oral manifestation preventive measures long term care 	dentistry	lectures	exam
29	1	Implant care	Implant care	Theory lectures	Theory exam
30	1	Protection of the dentition Impact of dental trauma Types of traumatic dental injuries to teeth Sports dentistry Protective mouth-guards Evidence of effectiveness mouth-guards and oral & systemic infections	Protection of the dentition	Theory lectures	Theory exam





Practic	al par	t		
Week	Hr	Laboratory subject	Learning method	Evaluatio n method
1	3	Diagnosis and treatment planning	Seminar	Exams
2	3	Diagnosis and treatment planning	Seminar	Exams
3	3	Preliminary medical and dental history, Clinical examination, Radio graphic examination	Seminar	Exams
4	3	Preliminary medical and dental history, Clinical examination, Radio graphic examination	Seminar	Exams
5	3	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants	Seminar	Exams
6	3	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants	Seminar	Exams
7	3	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion	Seminar	Exams
8	3	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion	Seminar	Exams
9	3	Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials	Seminar	Exams
10	3	Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials	Seminar	Exams
11	3	Trauma management in anterior teeth	Seminar	Exams
12	3	Trauma management in anterior teeth	Seminar	Exams
13	3	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material	Seminar	Exams
14	3	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material	Seminar	Exams
15	3	Pulp therapy for primary dentition	Seminar	Exams
16	3	Pulp therapy for primary dentition	Seminar	Exams
17	3	Management of simple cases of dental anomalies and other developmental defects	Seminar	Exams
18	3	Management of simple cases of dental anomalies and other developmental defects	Seminar	Exams





19	3	Maintenance of pulp vitality by use of	Seminar	Exams
		regenerative materials and Root canal treatment		
		for anterior non vital teeth		
20	3	Maintenance of pulp vitality by use of	Seminar	Exams
		regenerative materials and		
		Root canal treatment for anterior non vital teeth		
21	3	Extraction for non restorable primary and	Seminar	Exams
		permanent teeth or over- retained primary		
		dentition and permanent teeth for space creation		
		for orthodontic treatment		
22	3	Extraction for non restorable primary and	Seminar	Exams
		permanent teeth or over- retained primary		
		dentition and permanent teeth for space creation		
		for orthodontic treatment		
23	3	Management of molar incisor	Seminar	Exams
		hypomineralization MIH		
24	3	Behavior management for young patients	Seminar	Exams
25	3	Behavior management for young patients	Seminar	Exams
26	3	Infection control re-assurance and guidance of	Seminar	Exams
		students		
27	3	Infection control re-assurance and guidance of	Seminar	Exams
		students		
28	3	Tooth colored restoration technique	Seminar	Exams
29	3	Tooth colored restoration technique	Seminar	Exams
30	3	Radiographic prescription and interpretation of	Seminar	Exams
		results		

11.Course Evaluation

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

12.Learning and Teaching Resources

Required textbooks (curricular books, if	Primary Preventive Dentistry by
any)	Harris NO Garcia-GodoyF-NatheCN
	8th Ed (. 20014)
	Comprehensive preventive dentistry
	(2012) Edited by Hardy Limeback
Main references (sources)	
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	





Course Description Form

	Course Description 1 orm
1. Cours	se Name:
	Oral Surgery
2. Cour	se Code:
	503 OSUR
3. Seme	ester / Year:
	Fifth year
4. Descr	ription Preparation Date:
	01 March 2024
5. Avail	able Attendance Forms:
	Theoretical and practical
6. Num	ber of Credit Hours (Total) / Number of Units (Total)
Theoretical	30 hours, practical: 180 hours. Total units: 8
7. Cours	se administrator's name (mention all, if more than one name)
Name: Lect	urer Dr Dhafar Almela
Email: tkda	lmela@uomosul.edu.iq
8. Cours	se Objectives
Course	- Introduction to clinical oral surgery
Objectives	- Study the advanced minor oral surgery operation.
	- Study the principle of impact tooth extraction.
	- Study the bone fracture (skull, maxilla, mandible etc).
9. Teacl	ning and Learning Strategies
Strategy	 Theory lectures and practical laboratories.
	 Educational videos and utilization of smart boards.
	 Use of educational models.
	 Focused student group discussion.

10. Course Structure

Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Orofacial pain Classification; somatic and	Orofacial pain	Theory lectures	Theory exam





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		 neuropathic Diagnosis Somatic pain; odontogenic pain, oral mucous membrane disorders, temporomandibular joint disorders, muscle disorders Neuropathic pain; trigeminal neuralgia, glossopharyngeal neuralgia, atypical odontalgia, postherpetic neuralgia Vascular pain; giant cell arteritis and migraine. 			
2	1	Preliminary management of patients with facial fractures • Etiology of maxillofacial trauma • Primary survey and advanced trauma life support (ATLS) Secondary survey.	Preliminary management of patients with facial fractures	Theory lectures	Theory exam
3	1	Fractures of the mandible Classification Clinical features Imaging Treatment; closed treatment, methods of immobilization, period of treatment, open reduction and internal fixation (ORIF) Teeth in the fracture line Complications	Fractures of the mandible	Theory lectures	Theory exam
4	1	Fractures of the mandible Mandibular fractures that require special consideration: • Pediatric fractures, • Fractures of edentulous mandible • Condylar fractures Comminuted fractures	Fractures of the mandible	Theory lectures	Theory exam
5	1	Fractures of the middle third of facial skeleton • Classification, clinical presentation imaging and treatment of:	Fractures of the middle third of facial skeleton	Theory lectures	Theory exam





	$\overline{}$	1	1		
		✓ Le Fort fractures			
		Zygomatic complex fractures			
6	1	Fractures of the middle third of	Fractures of	Theory	Theory
		facial skeleton	the middle	lectures	exam
		Classification, clinical	third of facial		
		presentation imaging and	skeleton		
		treatment of:			
		Orbital floor fractures			
		Nasal bone fractures Complianting of fortunes for the second fortune of the second			
		Complications of fractures of			
7	1	middle third of facial skeleton	Dentoalveola	T1	T1
7	1	Dentoalveolar and soft tissue	r and soft	Theory	Theory
		injuries	tissue injuries	lectures	exam
		• Factors affecting	tissue injuries		
		dentoalveolar injuries			
		• Classification			
		Clinical presentation			
		Radiographic evaluation			
		• Treatment			
		• Splinting techniques			
		• Complications.			
		Soft tissue injures; classification,			
		treatment and soft tissue injuries			
- 0	-	of special significance	D 41 4	T1	TT1
8	1	Preprosthetic surgery	Preprosthetic	Theory	Theory
		Definition.	surgery	lectures	exam
		Preoperative assessment			
		Clinical examination and			
		radiographic evaluation.			
		Bony recontouring procedures:			
		alveoloplasty, maxillary			
		tuberosity reduction, exostoses			
		and excessive undercuts,			
		mylohyoid ridge and genial			
		tubercle reduction and torus			
- 0	1	removal.	Duanna ethatia	TI	TT1
9	1	Preprosthetic surgery	Preprosthetic	Theory	Theory
		Soft tissue procedures:	surgery	lectures	exam
		unsupported hypermobile tissue on the alveolar			
		ridge, inflammatory			
		fibrous hyperplasia (epulis			
		fissuratum), labial			
		frenectomy, lingual			
		frenectomy, ridge			
		monocionity, mage			I





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		extension (vestibuloplasty) • Immediate dentures • Alveolar ridge preservation Correction of abnormal ridge relationships			
10	1	Potentially malignant disorders of the oral mucosa Classification and terminology Risk factors, Diagnostic methods and diagnostic aids Potentially malignant disorders: leukoplakia, erythroplakia, palatal changes associated with reverse smoking, oral submucous fibrosis, actinic cheilitis and lichen planus.	Potentially malignant disorders	Theory lectures	Theory
11	1	Odontogenic diseases of the maxillary sinus Overview of the maxillary sinus Clinical and radiographic examination Non-odontogenic infections of the maxillary sinus Odontogenic infections of the maxillary sinus Oroantral communications and fistulae Treatment Treatment Treatment of: ✓ Orbital floor fractures ✓ Nasal bone fractures Complications of fractures of middle third of facial skeleton	Odontogenic diseases	Theory lectures	Theory exam
12	1	Benign cystic lesions of the oral cavity • Definition • Classification of cysts (according to the WHO classification 2017) • Odontogenic cysts of inflammatory origin	Benign cystic lesions	Theory lectures	Theory





	, Majari			
	 Odontogenic and non-odontogenic developmental cysts Clinical features Radiographic features Surgical management of cystic lesions Enucleation: indications, advantages and disadvantages Adjunctive treatment ✓ Peripheral ostectomy and curettage ✓ Cryotherapy ✓ Chemical treatment ✓ Topical 5-fluorouracil 			
	Marsupialization			
13	 Odontogenic tumors Definition Classification of Odontogenic Tumors (according to the WHO classification of odontogenic cysts, tumors and maxillofacial bone tumors 2017) ✓ Epithelial odontogenic tumors ✓ Mixed epithelial and mesenchymal odontogenic tumors ✓ Mesenchymal odontogenic tumors. Clinical features Radiographic features Ameloblastoma ✓ Ameloblastoma ✓ Unicystic ameloblastoma ✓ Peripheral/extraosseous) Odontoma ✓ Compound type ✓ Complex type Surgical treatment of odontogenic tumors 	Odontogenic tumors	Theory lectures	Theory exam





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		• Enucleation and/or curettage,			
		adjunctive treatment			
		Resection			
14	1	Non-odontogenic tumors and fibro-	Non-	Theory	Theory
		osseous lesions of the jaw	odontogenic	lectures	exam
		• Classification (according to the	tumors		
		WHO classification of	tulliois		
		odontogenic and maxillofacial			
		bone tumors 4th edition 2017)			
		Giant cell lesions			
		✓ Central giant cell granuloma			
		✓ Brown tumor of			
		hyperparathyroidism			
		✓ Cherubism			
		✓ Aneurysmal bone cyst			
		Fibro-osseous lesions			
		✓ Fibrous dysplasia			
		✓ Ossifying fibroma			
		✓ Cemento-osseous dysplasia			
		Osteoma			
		Osteosarcoma			
15	1	Oral cancer	Oral cancer	Theory	Theory
		Natural history of squamous		lectures	exam
		cell carcinoma			
		Etiology			
		Site distribution			
		Clinical presentation			
		• Staging (using the 8 th			
		edition of the cancer			
		staging manual) and			
		grading			
		Radiographic assessment			
		- Surgical treatment, access to			
		the oral cavity			
16	1	Oral cancer	Oral cancer	Theory	Theory
		Management of the neck		lectures	exam
		Postoperative follow up			
		Radiotherapy,			
		radiotherapy			
		techniques and			
		fractionation			
		Chemotherapy, agents and			
		scheduling			
		Palliative treatment and			
		terminal care			





17	1	 Implant Treatment: Advanced Concepts Immediate post-extraction implants Immediate loading versus delayed loading Bone grafts and graft substitutes Sinus lift procedure 	Implant Treatment: Advanced Concepts	Theory lectures	Theory
18	1	Implant Treatment: Advanced Concepts Inferior alveolar nerve lateralization Narrow and short implants Image-guided implantology Computer-Assisted Implant Surgery Special implants (zygomatic and extra-oral implants)	Implant Treatment: Advanced Concepts	Theory lectures	Theory
19	1	Salivary gland diseases Overview of major and minor salivary glands Clinical assessment Imaging Classification: ✓ Developmental ✓ Inflammatory ✓ Obstructive and traumatic lesion ✓ Functional ✓ Autoimmune conditions ✓ Neoplastic lesions Inflammatory conditions (sialadenitis): Viral sialadenitis and Bacterial sialadenitis, Obstructive conditions Functional conditions: Xerostomia, Sialorrhea Conditions of possible traumatic origin: Mucocele, Ranula	Salivary gland diseases	Theory lectures	Theory exam
20	1	Salivary gland diseases • Autoimmune conditions: Sjögren syndrome, Immunoglobulin G4-related salivary gland disease	Salivary gland diseases	Theory lectures	Theory exam





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		 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 			
21	1	Temporomandibular joint (TMJ) disorders TMJ anatomy Evaluation and Radiographic examination of the TMJ Disorders of the TMJ: Structural (internal derangement) Wilkes classification of internal derangement Functional (myofascial pain) Management: non-surgical, minimally invasive (arthocentesis and arthroscopy) and surgery	Temporoman dibular joint (TMJ) disorders	Theory lectures	Theory exam
22	1	Temporomandibular joint (TMJ) disorders • Hypermobility of TMJ • Hypomobility of TMJ: • Classification of TMJ ankyloses Treatment	Temporoman dibular joint (TMJ) disorders	Theory lectures	Theory exam
23	1	 Orthognathic surgery Definition Treatment objectives Clinical examination (facial evaluation in frontal and profile views) Radiographic evaluation (Lateral cephalometric analysis) Pre-surgical Orthodontic 	Orthognathic surgery	Theory lectures	Theory





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		Considerations			
		Treatment Timing	0.1.1.		
24	1	Orthognathic surgery	Orthognathic	Theory	Theory
		Mock surgery and fabrication	surgery	lectures	exam
		of splints			
		Surgical treatment phase			
		(mandibular excess,			
		mandibular deficiency,			
		maxillary excess, Maxillary and Midface Deficiency)			
		Distraction osteogenesis			
25	1		Claft lin and	Theory	Theory
23	1	Cleft lip and palate	Cleft lip and		_
		• Epidemiology	palate	lectures	exam
		 Etiology Classification			
		Prenatal diagnosis Clinical manifestations			
		Clinical manifestations			
		Management; presurgical orthopodies, primary operative			
		orthopedics, primary operative management, treatment			
		planning and timing, surgical			
		procedures of cleft lip			
26	1	Cleft lip and palate	Cleft lip and	Theory	Theory
		Management; Surgical	palate	lectures	exam
		procedures of cleft palate,	-		
		complications			
		Secondary operative			
		management; alveolar bone			
		grafting, goals and timing,			
		procedure, source of bone graft,			
27	1	complications.	т 1	TCI	Tri
27		Laser and Cryosurgery in oral and	Laser and	Theory	Theory
		maxillofacial surgery	Cryosurgery	lectures	exam
		• Laser			
		Classification of laser according to power: low-			
		energy and high-energy			
		The advantages of laser			
		Hazards and precautions			
		required when using laser			
		Cryosurgery			
		CryosurgeryCryosurgery techniques			
		Uses of cryosurgery			
		• The advantages of using			
<u></u>		cryosurgery			





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		The disadvantages of using			
		cryosurgery			
28	1	Vascular anomalies Classification (according to ISSVA 2018) Hemangioma Clinical presentation and staging Investigations Treatment In the proliferative phase In the involutive phase Residual lesions Vascular malformations Classification according to the vessel type and whether high or low flow Clinical presentation with emphasis on the intraosseous venous malformation	Vascular anomalies	Theory lectures	Theory exam
		• Investigations			
20	-	Treatment	D: :1 0	TD1	TO 1
29	1	Principles of reconstructive surgery of defects of the jaws Goals of reconstruction Biologic basis of bone reconstruction Types of grafts (autogenous, allogeneic, xenogeneic) Osteoinduction, Osteoconduction and Osteogenesis Assessment of patient in need for reconstruction Goals of mandibular reconstruction Defect types and localizations Mandibular reconstruction Surgical principles of maxillofacial bone grafting procedures	Principles of reconstructive surgery of defects of the jaws	Theory lectures	Theory exam
30	1	Principles of reconstructive surgery	Principles of	Theory	Theory
		of defects of the jawsMaxillary reconstructionGoals of maxillary	reconstructiv e surgery of defects of the	lectures	exam





	reconstructive surgery	jaws	
	Computer-assisted surgical		
	planning		
	Flaps for maxillofacial		
	reconstruction		
	• Definition		
	• Classifications		
	• Examples of flaps in maxilla-		
	mandibular reconstruction (palatal		
	flap, tongue flap, buccal fat pad		
	flap, Facial Artery		
	Musculomucosal Flap, Temporalis		
	muscle flap,		
	Submental Flap, Vascularized Iliac		
	Crest Grafts		
Dagatical a			

Clinical requirements (6 hours/ week - 180 hours/ year)

- Extraction of teeth (simple extraction)
- Surgical extraction of teeth
- Surgical assistant in minor oral surgery and dental implants.
- Participating in oral and maxillofacial surgery ward rounds

11. Course Evaluation

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

Required textbooks (curricular books, if any)	1. Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier (. 2. Perry M, Brown A, Banks P (2015). Fractures of The Facial Skeleton, second edition. Wiley Blackwell.
Main references (sources)	
Recommended books and references (scientific journals, reports)	
Electronic References, Websites	





	F
1. Cours	se Name:
	Prosthodontics
2. Cours	se Code:
	504 PROS
3. Seme	ster / Year:
	Fifth year
4. Desci	ription Preparation Date:
	01 March 2024
5. Avail	able Attendance Forms:
	Theoretical and practical
6. Numl	ber of Credit Hours (Total) / Number of Units (Total)
Theoretical:	30 hours, practical: 180 hours. Total units: 8
7. Cours	se administrator's name (mention all, if more than one name)
Name: Assi	st Prof Dr Nada Zuhair
Email: nada	2005@uomosul.edu.iq
8. Cours	se Objectives
Course	- Introduction to Overdenture
Objectives	- Study the advanced attachment techniques.
	- Study the principle of Implant Prosthodontics.
	- Study the principles of maxillofacial prosthodontics
9. Teach	ning and Learning Strategies
Strategy	 Theory lectures and practical laboratories.
	 Educational videos and utilization of smart boards.
	 Use of educational models.
	 Focused student group discussion.
10 0	

10. Course Structure

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	OcclusionArticulation	Occlusion in Complete	Theory lectures	Theory exam





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		 Centric relation Centric occlusion Occlusal balance Occlusal harmony Occlusal interference Maximum intercuspation ✓ Requirements of ideal complete denture occlusion ✓ Objectives of occlusion in complete denture Requirement of complete denture occlusion Types of occlusion Types of occlusion Balance occlusion ✓ Advantages of balance occlusion 	Denture		
2	1	 Factors affecting the balanced occlusion (laws of articulation) ✓ Condylar guidance ✓ Incisal guidance ✓ Plane of occlusion ✓ The compensating curve ✓ Cuspal angulations Interaction of the five factor Lingualized occlusion Monoplane or occlusion (neutrocentric) Types of occlusal scheme ✓ retention, stability and support of complete denture 	Occlusion in Complete Denture	Theory lectures	Theory
3	1	 Retention Factors affect in the retention of CD Mechanical factors Muscular factor Denture surface Occlusal surface Polished surface 	Retention, Stability and Support	Theory lectures	Theory exam
4	1	 Impression surface Stability Various factors that affecting the stability Support Nature of the Supporting tissue Mandibular anatomical consideration Mandibular residual ridge Maxillary anatomic consideration 	Retention, Stability and Support	Theory lectures	Theory exam





		o Factors that influence the form and size of the supporting bone			
5	1	 Classification of Post-Insertion Denture problems ✓ Complaints about comfort of the denture ✓ Complaints about function of the denture ✓ Complaints about esthetics ✓ Complaints about phonetics Complaints about comfort of the denture ✓ Sore spot ✓ Burning sensation ✓ Redness ✓ Pain in TMJ ✓ Tongue and cheek biting ✓ Swallowing & sore throat ✓ Nausea and gagging ✓ Clicking of teeth ✓ Fatigue of the muscles of mastication 	Post Insertion Problems	Theory lectures	Theory exam
6	1	 Complaints about function of the denture ✓ Loose denture (poor retention) ✓ Unstable denture Complaints about esthetics Complaints about phonetics Oral mucosal Lesions induced by removable dentures Causes of Mucosal Irritation Types of these lesions ✓ Denture stomatitis ✓ Angular Cheilitis ✓ Flabby ridge ✓ Denture irritation hyperplasia ✓ Traumatic ulcer ✓ Burning Mouth Syndrome Hypersensitivity 	Post Insertion Problems	Theory lectures	Theory exam
7	1	 Changes occurred required Long term recall appointments Some Clinical Problems and Solutions associated with complete denture Problems of reduced salivary flow 	Complications Of Complete Denture	Theory lectures	Theory exam





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		✓ Aetiology of reduced salivary flow ✓ Management of dry mouth			
		 Hard and soft materials for 			
		modifying the impression			
		surface of dentures			
8	1	 Other complications 	Complications	Theory	Theory
		✓ Flabby ridge	Of Complete	lectures	exam
		✓ Denture breakages	Denture		
		✓ Debonding of teeth			
		✓ Gagging reflex (retching) ✓ Burning mouth syndrome			
		Disturbance of speech			
9	1	Introduction, Definition,	Immediate	Theory	Theory
		Indications,	Denture	lectures	exam
		Contraindications,			
		Advantages, Disadvantages			
		Types of immediate dentures			
		Explanation to the Patient Concerning			
		Immediate Dentures			
		minediate Bentures			
10	1	 Diagnostic steps, 	Immediate	Theory	Theory
		Impression techniques, Jaw	Denture	lectures	exam
		relations record, Try-in,			
		Cast trimming, Waxing and			
		flasking, Surgical splints,			
		Setting of teeth, Processing			
		and finishing, Insertion			
11	1	Post-operative care and instructions Development of the	Classification	Theomy	Theory
11	1	classification system	system for	Theory	Theory
		 Diagnostic Criteria 	completely	lectures	exam
		 Integration of Diagnostic 	edentulous		
		Findings	patients		
		 Diagnostic Classification of 			
		Complete Edentulism			
		 Reasons for a Classification 			
		System			
		• Features govern classes			
		differentiation from			
		each other Guidelines for Use of the			
		Complete Edentulism			
		Classification System			
		Bone height-mandible only			
		 Residual ridge morphology- 			





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		 maxilla only Muscle Attachments: Mandible only Maxillomandibular Relationship Integration of Diagnostic Findings Arrangement of artificial teeth in abnormal jaw relations 			
12		 Arrangement of anterior teeth in maxillary protrusion Arrangement of artificial teeth in abnormal jaw relations Arrangement of anterior teeth in mandibular protrusion 	Classification system for completely edentulous patients	Theory lectures	Theory exam
13	1	 Anatomical and Physiological Considerations for Posterior Palatal Seal Methods of location of anterior vibrating line (AVL) Classification of soft palate Designs of the posterior palatal seal Methods or techniques of recording posterior palatal Seal area Error in recording of posterior palatal seal 	Posterior palatal seal area	Theory lectures	Theory exam
14	1	 Maxillary complete denture opposing by complete mandibular dentition Techniques used to determine occlusal modifications prior to denture construction Upper complete denture opposing by mandibular partial denture Complications of single CD ✓ Combination Syndrome and Associated Changes 	Single CD	Theory lectures	Theory





		(Kelly's Syndrome) ✓ Setting of teeth and occlusal concept ✓ fracture of Denture ✓ Wear of Teeth • Mandibular single denture Steps for Single Denture construction			
15	1	 Factors influencing Aging Goal of Geriatric dentistry Objectives of Geriatric dentistry Psychological disorders of elderly patients generally seen by prosthodontist Factors that influence the patient's response Seven basic personality traits will be considered in the light of their influence on success in dentistry Systemic Diseases and its dental relation Geriatric dentistry related to prosthetic part 2 	Single CD	Theory lectures	Theory exam
16	1	 Objectives of maxillofacial prosthesis Maxillofacial Classification Extra Oral Appliances Intra Oral Appliances 	Maxillofacial Prosthesis	Theory lectures	Theory exam
17	1	 Retentive Aids in Maxillofacial Prosthodontics Steps of maxillofacial prostheses construction 	Maxillofacial Prosthesis	Theory lectures	Theory exam
18	1	Structural characteristics of alveolar bone Pathology of RRR Pathogenesis of RRR Direction of bone resorption Patterns of bone resorption Consequences of RRR	Residual Ridge resorption	Theory lectures	Theory exam
19	1	Etiology of RRRRRR is a multi-	Residual Ridge resorption	Theory lectures	Theory exam





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		factorial, biomechanical			
		disease			
		✓ Metabolic factors			
		✓ Dietary Factors			
		Osteoporosis and residual			
		ridge modeling			
		Prosthetic factors			
		Treatment and Prevention of RRR			
20	1	implant classification	Dental	Theory	Theory
20	1	✓ Classification of endosseous		Theory	Theory
			implantology	lectures	exam
		implants according to their			
		design			
		✓ Classification of endosseous			
		implants according to their			
		material			
		✓ Classification of endosseous			
		implants according to surface			
		characteristics			
		✓ Classification of endosseous			
		implants according to the			
		insertion technique			
		✓ Classification of endosseous			
		1			
		surgical stages			
		✓ 6.classification of			
		endosseous implants			
		according to the time of			
		installation			
		✓ 7.classification of			
		endosseous implants			
		according to time of			
		prosthetic loading			
		 Factors affecting healing 			
		✓ Surgical technique			
		✓ Premature loading			
		✓ Surgical fit			
		✓ Bone quality and quantity			
		✓ Physical condition of the			
		patient			
		Components of branemark			
		implant system			
		Prosthetic options in			
		implant dentistry			
		Overdenture (implant			
		supported			
		overdenture)			
		Occlusal form and scheme			
		Occiusai ioiiii and scheine			





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21	1	 Basic sequence of procedures in implants treatment ✓ Radiographic stent Implant success and survival Indications of implant denture Contradictions of implant denture Characteristics of the osseointegrated implant Basic guidingfactors of osseointegration Occlusion in implant-supported prostheses 	Dental implantology	Theory lectures	Theory exam
22	1	 Definition Factors Influencing the Appearance of Dentures Steps in achieving esthetic complete denture Additional clinical and technical considerations in anterior tooth selection patient preferences Gingival Contour Denture base factors Characterization Final Decision for Esthetics 	Esthetics in CD	Theory lectures	Theory
23	1	 osseointegration Biomaterials Selection of Biomedical Materials Classification of implant materials Guided Bone Regeneration 	Characteristics Of Ideal Materials For Dental Implant	Theory lectures	Theory exam
24	1	 Types of surface modification: Surface design Ceramic coating Super structure 	Characteristics Of Ideal Materials For Dental Implant	Theory lectures	Theory exam
25	1	 Definition Aims Indication Technique for denture duplication Laboratory procedure for denture duplication 	Copy denture	Theory lectures	Theory exam





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		Denture duplication technique ✓ The silicon putty ✓ The agar- Agar ✓ Modification/ Further application Problem Areas in Fabrication and Solutions			
26	1	 The important goals of overdenture Indications of Overdenture. Contraindications of Overdenture Advantages of overdenture prosthesis Disadvantage of overdenture Overdenture Classification Sequence of Treatment of Patient Who Need an Overdenture 	Over Denture	Theory lectures	Theory exam
27	1	 Impressions of the Abutment Teeth Denture Base designing Implant supported overdenture Type of implant overdenture Indication of Implant supported overdenture Contraindication Advantages of implant supported over denture Disadvantages of implant supported over denture over denture 	Over Denture	Theory lectures	Theory exam
28	1	 Definitions Neutral Zone Concept Objectives of Neutral zone Techniques Indications of Neutral zone Techniques Recording neutral zone in final impression stage Recording neutral zone in jaw relation visit Recording neutral zone in try in stage Recording neutral zone in try in stage Recording neutral zone in finished denture 	Neutral zone in CD	Theory lectures	Theory exam





		Limitation for the success of neutral zone impression technique			
29	1	 Function of attachment Factors affecting attachment selection Retentive Mechanism 	Attachments in over denture	Theory lectures	Theory exam
30	1	Classification of AttachmentsTypes of attachmentsOverdenture care	Attachments in over denture	Theory lectures	Theory exam

Clinical Requirements: (5 hrs / week – total 180 hrs / year)

Cases of upper and lower complete dentures

Single complete denture against partial denture or natural teeth.

Immediate or flexible RPD.

Case of repair.

11. Course Evaluation

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

Required textbooks (curricular books, if	Zarb, Hobkirk, Eckert, Jacob et al.
any)	Prosthodontic treatment for
	edentulous patients: Complete
	dentures and implant-supported
	prostheses.13th edition 2013 by
	Mosby, Elsevier Inc.
	• Golden and Driscoll. Treating the
	complete denture patient. 1st edition
Main references (sources)	
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	





1. Cours	se Name:				
	Clinical Endodontics and Cli	nical Fixed Pro	sthodontics	<u> </u>	
2. Cours					
	505 Cl	ECP			
3. Seme	ester / Year:				
	Fifth	year			
4. Descr	ription Preparation Date:				
	01 Marc	h 2024			
5. Avail	lable Attendance Forms:				
	Theoretical a	nd practical			
6. Num	ber of Credit Hours (Total) / Nun	nber of Units (7	Total)		
Theoretical	: 30 hours, (15 hr Clinical En	dodontics and	15 hr Cli	nical Fixed	
Prosthodon	tics) practical: 180 hours. Total u	nits: 6			
7. Cours	se administrator's name (mention	all, if more tha	n one name	e)	
Name: Assi	st Prof Dr Alaa Idrees Dawood				
Email: alaa.	.edrees@uomosul.edu.iq				
8. Cours	se Objectives				
Course	- Introduction to Endodontics				
Objectives	- Study the advanced Endodor	ntic treatment te	echniques.		
	- Study the principle of fixed p				
	- Study the principles of crown	n/bridge prosth	odontics		
9. Teacl	hing and Learning Strategies				
Strategy	Theory lectures and pract	ical laboratorie	<u> </u>		
	 Educational videos and ut 				
			ari boarus.		
	 Use of educational model 				
	 Focused student group discussion. 				
10. Course	Structure				
Theoretical	Theoretical Part				
Week Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	





	30213				
1	1	Endodontic diagnosis	Clinical	Theory	Theory
			Endodontics	lectures	exam
2	1	Pain control in Endodontics	Clinical	Theory	Theory
			Endodontics	lectures	exam
3	1	Endodontic radiography	Clinical	Theory	Theory
			Endodontics	lectures	exam
4	1	Working length Determination	Clinical	Theory	Theory
			Endodontics	lectures	exam
5	1	Microbiology	Clinical	Theory	Theory
			Endodontics	lectures	exam
6	1	Microbiology	Clinical	Theory	Theory
			Endodontics	lectures	exam
7	1	Intracanal instruments	Clinical	Theory	Theory
			Endodontics	lectures	exam
8	1	Intracanal instruments	Clinical	Theory	Theory
			Endodontics	lectures	exam
9	1	Obturation of the root canal system	Clinical	Theory	Theory
			Endodontics	lectures	exam
10	1	Obturation of the root canal system	Clinical	Theory	Theory
			Endodontics	lectures	exam
11	1	Endodontic Emergency	Clinical	Theory	Theory
		Treatment	Endodontics	lectures	exam
12	1	Restoration of Endodontically	Clinical	Theory	Theory
		Treated Teeth	Endodontics	lectures	exam
13	1	Endodontic-Periodontal Relations	Clinical	Theory	Theory
			Endodontics	lectures	exam
14	1	Tooth discoloration and bleaching.	Clinical	Theory	Theory
		_	Endodontics	lectures	exam
15	1	Tooth discoloration and bleaching.	Clinical	Theory	Theory
			Endodontics	lectures	exam
16	1	Terminology, definition of fixed	Fixed	Theory	Theory
		partial denture, Effect of Tooth	Prosthodontics	lectures	exam
		Loss, Comparism with R.P.D			
17	1	Types of Fixed Bridge including	Fixed	Theory	Theory
		Basic Bridge Design	Prosthodontics	lectures	exam
18	1	Components of Fixed Bridge;	Fixed	Theory	Theory
		Retainers	Prosthodontics	lectures	exam
19	1	Components of Fixed Bridge;	Fixed	Theory	Theory
		Pontics Connectors.	Prosthodontics	lectures	exam





20	1	Clinical Consideration for Bridge ConstructionAbutment Tooth(evaluation and selection) _Crown/Root RatioSplinting of teethPatient Occlusal StatusGeneral Factors.	Fixed Prosthodontics	Theory	Theory
21	1	Clinical Situations affecting Bridge Design; (Post. Tilted Abutments, Span Length, Pier Abut., Arch	Fixed Prosthodontics	Theory lectures	Theory exam
22	1	Resin bonded bridge	Fixed Prosthodontics	Theory lectures	Theory exam
23	1	Diagnosis And Treatment Plan. Intra-oral Examination. X-Rays Examination. Diagnostic Cast Examination.	Fixed Prosthodontics	Theory lectures	Theory exam
24	1	Gingival retraction and impression(techniques)and impression disinfection	Fixed Prosthodontics	Theory lectures	Theory exam
25	1	provisional Restoration, Oclussion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registeration, and Articulation	Fixed Prosthodontics	Theory lectures	Theory exam
26	1	provisional Restoration, Oclussion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registeration, and Articulation	Fixed Prosthodontics	Theory lectures	Theory exam
27	1	Try-in and Shade Selection (Colour dimensions Hue,Chroma,and Value).	Fixed Prosthodontics	Theory lectures	Theory exam
28	1	Final Cementation of F.P.Ds.(Techniques)	Fixed Prosthodontics	Theory lectures	Theory exam
29	1	Failure in Fixed Prosthodontics.	Fixed Prosthodontics	Theory lectures	Theory exam
30	1	Porcelain in Fixed Prosthodontics (Current Ceramic).	Fixed Prosthodontics	Theory lectures	Theory exam





Clinical requirements (6 hrs / week)

The students are required to complete the following restorations:-

a. Amalgam Restorations

Class I, Class II, Compound and complex restorations.

b. Composite (tooth colored) Restorations

Class I, Class II, Class IV, and Class V.

- c. Fixed prosthesis including crown and bridge work.
- d. Endodontic treatment for anterior teeth and premolars.
- e. Seminars

11. Course Evaluation

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

Required textbooks (curricular books, if	Cohen's Pathways of the Dental
any)	Pulp. 12th ed. Louis H. Berman and
	Kenneth M. Hargreaves.
	Fundamentals of Fixed
	Prosthodontics, 2012, Quintessence
	Pub. SHILLINGBURG, H. T. &
	SATHER, D. A.
	2- Contemporary Fixed
	Prosthodontics, 2016 Elsevier.
	ROSENSTIEL, S. F., LAND, M. F.
	& FUJIMOTO, J.
Main references (sources)	
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	





	Course Description Form
1. Cour	se Name:
	Orthodontics
2. Cour	se Code:
	506 ORTH
3. Seme	ester / Year:
	Fifth year
4. Desc	ription Preparation Date:
	01 March 2024
5. Avai	lable Attendance Forms:
	Theoretical and practical
6. Num	ber of Credit Hours (Total) / Number of Units (Total)
Theoretical	: 30 hours, practical: 120 hours. Total units: 6
7. Cour	se administrator's name (mention all, if more than one name)
Name: Assi	st Prof Dr Sarmad Sobhi Salih
Email: Sarn	nadsobhi@uomosul.edu.iq
8. Cour	se Objectives
Course	- Introduction to clinical orthodontics
Objectives	- Study the advanced orthodontic treatment techniques.
	- Study the principle of fixed orthodontics.
	- Study the manufacturing of removable orthodontics
9. Teach	hing and Learning Strategies
Strategy	- Theory lectures and practical laboratories.
	 Educational videos and utilization of smart boards.
	 Use of educational models.
	 Focused student group discussion.
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10. Course Structure

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Orthodontic diagnosis and treatment planning:	Orthodontic diagnosis	Theory lectures	Theory exam





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		Personal data			
		Consent form			
		Clinical examination			
2	1	i. General body stature Face examination in 3 dimensions	Face	Theory	Theory
2	1	skeletal examination	examination	lectures	1
		Soft tissue examination	examination	lectures	exam
3	1	v. Occlusion	Occlusion	Theory	Theory
				lectures	exam
4	1	Dentition	TMJ	Theory	Theory
		Temporomandibular joint		lectures	exam
5	1	d- Diagnostic aids	Diagnostic aids	Theory	Theory
		i. Cephalometrics		lectures	exam
6	1	Orthopantomography	Diagnostic aids	Theory	Theory
		Other views		lectures	exam
7	1	iv. Study models	Diagnostic aids	Theory	Theory
				lectures	exam
8	1	Photography	Diagnostic aids	Theory	Theory
		3D imaging		lectures	exam
9	1	e- Treatment planning	Treatment	Theory	Theory
			planning	lectures	exam
10	1	f- Treatment of Medically	Treatment	Theory	Theory
		compromised patients	planning	lectures	exam
11	1	g- Orthodontic indices	Treatment	Theory	Theory
			planning	lectures	exam
12	1	Space analysis, Bolton's ratio	Space analysis	Theory	Theory
				lectures	exam
13	1	Teeth extraction in orthodontics	Teeth	Theory	Theory
			extraction in	lectures	exam
			orthodontics		
14	1	Serial extraction	Serial	Theory	Theory
			extraction	lectures	exam
15	1	Vertical and transverse problems:	Vertical and	Theory	Theory
		a. Deep bite	transverse	lectures	exam
16	1	b. Open bite	Problems Vertical and	Theory	Theory
10	1	o. Open one	transverse	lectures	exam
			problems	icciuics	CAaiii
17	1	c. Crossbite and scissors bite	Vertical and	Theory	Theory
''		2. Stobbotte and belbboth one	transverse	lectures	exam
			problems	Toctates	CAMIII
	1		Problems	1	





18	1	Treatment of common local factors: supernumerary and hypodontia Early loss of deciduous teeth Retained teeth, delayed eruption, impaction, ankylosis Abnormal eruptive behavior Large frenum	Treatment of common local factors	Theory lectures	Theory exam
10		0.00 1 11 11	D 1 11 11	- T-1	- TE1
19	1	f. Bad oral habits	Bad oral habits	Theory lectures	Theory
20	1		G :		exam
20	1	Treatment of aberrant position of canines	Canines	Theory lectures	Theory exam
21	1	Treatment of general factors:	Class I	Theory	Theory
21	1	Class I treatment (crowding, spacing, biprotrusion)		lectures	exam
22	1	Continue class I treatment (method	Class I	Theory	Theory
		of space creation)		lectures	exam
23	1	b. Class II div. 1 treatment	Class II	Theory	Theory
				lectures	exam
24	1	c. Class II div. 2 treatment	Class II	Theory	Theory
				lectures	exam
25	1	d. Class III treatment	Class III	Theory	Theory
				lectures	exam
26	1	Treatment of adults	Periodontal	Theory	Theory
		Periodontal problems	problems	lectures	exam
27	1	b- Orthognathic surgery	Orthognathic	Theory	Theory
			surgery	lectures	exam
28	1	Cleft lip and palate	Cleft lip and	Theory	Theory
			palate	lectures	exam
29	1	Continue cleft lip and palate	Cleft lip and	Theory	Theory
			palate	lectures	exam
30	1	Digital orthodontics (digital	Digital	Theory	Theory
		approach in orthodontic diagnosis and treatment)	orthodontics	lectures	exam





Clinical requirements (4 hrs / week)

Treatment of at least one patient:

- 1- Diagnosis :(Mandatory)
- a- Case sheet filling & presentation
- b- Upper and lower impression.
- c- Study models preparation
- d- Extra & intra oral photographs
- e- Cephalometric tracing
- 2- Treatment plan:(Mandatory)
- 3- Insertion(Optional)
- 4- Adjustment or Activation(Optional)

11. Course Evaluation

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

12-2	
Required textbooks (curricular books, if	1. An Introduction to Orthodontics
any)	5th Edition Simon J. Littlewood and
	Laura Mitchell 2019.
	2. Orthodontics: Principles and
	Practice: Principles and Practice 2nd
	Edition 2017
Main references (sources)	
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	





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1. Cours	se Name:
	Pedodontics
2. Cours	se Code:
	507 PEDO
3. Seme	ster / Year:
	Fifth year
4. Descr	ription Preparation Date:
	01 March 2024
5. Avail	able Attendance Forms:
	Theoretical and practical
6. Numb	per of Credit Hours (Total) / Number of Units (Total)
Theoretical:	30 hours, practical: 90 hours. Total units: 4
7. Cours	se administrator's name (mention all, if more than one name)
Name: Assit	t Lect Leqaa Hashim Salim Qibi
Email: dr.led	qaa@uomosul.edu.iq
8. Cours	se Objectives
Course	- Introduction to clinical Pedodontics
Objectives	- Study the advanced Pedodontics treatment techniques.
	- Study the principle of Pedodontics teeth extraction
	- Study the manufacturing of space maintainer
9. Teach	ning and Learning Strategies
Strategy	- Theory lectures and practical laboratories.
	 Educational videos and utilization of smart boards.
	 Use of educational models.
	 Focused student group discussion.
10 Course	Structure

10. Course Structure

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Advantages of treatment planning, The diagnostic methods,	Diagnosis and treatment	Theory lectures	Theory exam





			,		
		Components of oral examination and diagnosis	planning		
2	1	Clinical examination, Radio	Preliminary	Theory	Theory
		graphic examination	medical and	lectures	exam
			dental history	10000100	
3	1	Child development, Major area	Art and science	Theory	Theory
	_	of development, Variables	of behavior	lectures	exam
		influencing children's dental		icciaics	CAMIII
		behaviors	management		
		classification of children's			
		behavior			
4	1	, Purpose, Classifying children, s	Non	Theory	Theory
		cooperative behavior	pharmacologic	lectures	exam
			management of		
			patient		
			behavior		
5	1	Degree of sedation, Indications for		Theory	Theory
		pharmacological behavior	Pharmacologic	lectures	exam
		management technique, Pre-			
		treatment documentation and	management of		
		assessment,	patient		
			behavior		-
6	1	Conscious sedation, Routes of	Sedation in	Theory	Theory
		drug administration, Enteral sedation	pediatric	lectures	exam
		,Rectal route, Intra muscular	dentistry		
		route, Intravenous route,			
		Inhalation,			
		Drugs and agents used for sedation,			
		General anesthesia			
7	1	Management of traumatic	Management	Theory	Theory
		injuries to the teeth and	of traumatic	lectures	exam
		supporting tissues of children,	injuries		
8	1	classification of injuries to the	Classification	Theory	Theory
		anterior teeth of children	of injuries	lectures	exam
		classification			
9	1	methods of clinical examination Traumatic injuries of the primary	Traumatic	Theory	Theory
)	l I	teeth and its effect on permanent			
		teeth	injuries	lectures	exam
10	1	Treatment of injury of	Treatment	Theory	Theory
		permanent teeth, emergency	of injury of	lectures	exam
		treatment, temporary restoration of	permanent		
		fractured teeth	teeth		
		i e e e e e e e e e e e e e e e e e e e	1	1	





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11	1	Advances in Pediatric Dentistry:	Advances in	Theory	Theory
		Advances in diagnostic aids,	Pediatric	lectures	exam
		Advances in cavity preparation methods	Dentistry		
12	1	Advances in endodontics, Advances	Advances in	Theory	Theory
		in local anesthesia	Pediatric	lectures	exam
			Dentistry	10000100	0110111
13	1	Advances in restorative	Advances in	Theory	Theory
		materials, Advances in surgical	Pediatric	lectures	exam
		procedures, miscellaneous	Dentistry		
14	1	Acquired disturbances of oral	Acquired	Theory	Theory
		structures	disturbances of	lectures	exam
			oral structures		
15	1	Developmental disturbances of oral	Developmental	Theory	Theory
		structures	disturbances of	lectures	exam
	_		oral structures		
16	1	Introduction simple gingivitis,	Gingivitis and	Theory	Theory
		eruption gingivitis, acute	periodontal	lectures	exam
		gingival disease; herpes simplex viral infection.	disease in		
		simplex vital infection.	children:		
17	1	Acute candidacies (thrush), acute	Acute	Theory	Theory
		bacterial infection, chronic non	candidacies	lectures	exam
		specific gingivitis, gingival			
		diseases modified by systemic factors.			
18	1	Gingival lesions of genetic origin,	Gingival	Theory	Theory
		ascorbic acid deficiency	lesions	lectures	exam
		gingivitis.		10000100	0110111
19	1	Periodontal diseases in children,	Periodontal	Theory	Theory
		early onset periodontitis,	diseases	lectures	exam
		prepubertal periodontitis,			
20	1	localized juvenile periodontitis.	Periodontal	Theory	Theory
20	1	Papillon – Lefevere syndrome, gingival recession, extrinsic		Theory	Theory
		stains and deposits on teeth	diseases	lectures	exam
21	1	Management of space problems,	Management	Theory	Theory
		planning for space maintenance,	of space	lectures	exam
		loss of primary incisors	problems		
22	1	Space Maintenance for the First	Space	Theory	Theory
		and Second	Maintenance	lectures	exam
		Primary Molar and the Primary			
		Canine Area, premature loss of			
		second primary molar			





23	1	Development of dental arch and	Development	Theory	Theory
		occlusion;		lectures	exam
24	1	Development of dental arch and	Development	Theory	Theory
		occlusion;		lectures	exam
25	1	Nance analysis, Moyers mixed	Arch length	Theory	Theory
		dentition analysis, Tanaka and Johnston analysis, Bolton analysis.	analysis;	lectures	exam
26	1	first dental visit, Radiographic	Dental	Theory	Theory
		examination, Preventive dentistry,	problems of the	lectures	exam
		Management of a child with special care needs during dental treatment,	disabled child		
		immobilization,			
27	1	Mental disability, Down	Mental	Theory	Theory
		syndrome, Intellectual disability, Learning disability	disability	lectures	exam
28	1	Fragile X syndrome, cerebral palsy,	Fragile X	Theory	Theory
		autism,	syndrome	lectures	exam
29	1	Respiratory diseases, hearing loss,	Respiratory	Theory	Theory
		visual impairment, epilepsy	diseases	lectures	exam
30	1	Heart disease, hemophilia, ,sickle	Heart disease	Theory	Theory
		cell anemia, viral hepatitis, AIDS,		lectures	exam
		children with systemic diseases			

Week	Hr	Laboratory subject	Learning	Evaluatio
			method	n method
1	3	Diagnosis and treatment planning	Seminar	Exams
2	3	Preliminary medical and dental history, Clinical examination, Radio graphic examination	Seminar	Exams
3	3	Demonstration how to obtain a complete case sheet	Seminar	Exams
4	3	Monitoring the developing dentition and recognition of any sign of malocclusion	Seminar	Exams
5	3	Types of Caries removal techniques	Seminar	Exams
6	3	Restoration of primary and young permanent teeth with variety types of restorative materials	Seminar	Exams
7	3	Management of traumatic injuries of the anterior teeth	Seminar	Exams
8	3	Minor oral surgery	Seminar	Exams
9	3	Minimal intervention dentistry	Seminar	Exams
10	3	Pulp therapy for permanent dentition	Seminar	Exams
11	3	Pulp therapy for primary dentition	Seminar	Exams
12	3	Materials used for pulp therapy	Seminar	Exams





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13	3	Chrome steel crowns	Seminar	Exams
14	3	Management of simple cases of dental anomalies	Seminar	Exams
		and other developmental defects		
15	3	Maintenance of pulp vitality by use of	Seminar	Exams
		regenerative materials		
16	3	Root canal treatment for anterior non vital teeth	Seminar	Exams
17	3	Extraction for non restorable primary and	Seminar	Exams
		permanent teeth or over- retained primary		
		dentition and permanent teeth for space creation		
		for orthodontic treatment		
18	3	Management of molar incisor	Seminar	Exams
		hypomineralization MIH		
19	3	Behavior management for young patients	Seminar	Exams
20	3	Infection control re-assurance and guidance of	Seminar	Exams
		students		
21	3	Tooth colored restoration technique	Seminar	Exams
22	3	Radiographic prescription and interpretation of	Seminar	Exams
		results		
23	3	Space maintainers	Seminar	Exams
24	3	Fluoride application as a preventive measure	Seminar	Exams
25	3	Amelogenesis imperfecta	Seminar	Exams
26	3	Supernumerary teeth and their impact on teeth	Seminar	Exams
		eruption		
27	3	Management of medically compromised children	Seminar	Exams
28	3	Peg teeth management	Seminar	Exams
29	3	ART technique	Seminar	Exams
30	3	Prosthesis usage in pediatric dentistry	Seminar	Exams
11.0		E 1 .:		

11.Course Evaluation

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

Required textbooks (curricular books, if	
any)	child and adolescent 2022 by elsevier
	Text book of pediatric dentistry
	nikhil marwa 2nd ed. 2019 new delhi
Main references (sources)	
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	





	Course Description Form
1. Cour	se Name:
	Oral Medicine
2. Cour	se Code:
	508 OMED
3. Seme	ester / Year:
	Fifth year
4. Desc	ription Preparation Date:
	01 March 2024
5. Avail	lable Attendance Forms:
	Theoretical and practical
6. Num	ber of Credit Hours (Total) / Number of Units (Total)
Theoretical	: 30 hours, practical: 120 hours. Total units: 6
7. Cour	se administrator's name (mention all, if more than one name)
Name: Lect	Dr Ahmed Salih Khudhur
Email: a.s.k	hudhur@uomosul.edu.iq
8. Cour	se Objectives
Course	- Introduction to clinical Oral Medicine
Objectives	- Study the aitiology of oral lesions.
	- Study the principle of diagnostic techniques
	- Study the issues related to oral cancer
9. Teacl	hing and Learning Strategies
Strategy	- Theory lectures and practical laboratories.
	 Educational videos and utilization of smart boards.
	 Use of educational models.
	 Focused student group discussion.
10 0	

10. Course Structure

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	The principles of oral diagnosis Clinical examinations	The principles of oral	Theory lectures	Theory exam





			diagnosis Clinical examinations		
2	1	The principles of oral diagnosis	The principles	Theory	Theory
		Clinical examinations	of oral	lectures	exam
			diagnosis		
			Clinical		
			examinations		
3	1	Laboratory investigations in	Laboratory	Theory	Theory
		dentistry	investigations	lectures	exam
			in dentistry		
4	1	Laboratory investigations in	Laboratory	Theory	Theory
		dentistry	investigations	lectures	exam
			in dentistry		
5	1	orofacial pain	orofacial pain	Theory	Theory
				lectures	exam
6	1	orofacial pain	orofacial pain	Theory	Theory
				lectures	exam
7	1	T.M.J	T.M.J	Theory	Theory
				lectures	exam
8	1	T.M.J	T.M.J	Theory	Theory
				lectures	exam
9	1	Oral ulceration and Vesiculo-bullus	Oral ulceration	Theory	Theory
		lesions	and Vesiculo-	lectures	exam
			bullus lesions		
10	1	Oral ulceration and Vesiculo-bullus	Oral ulceration	Theory	Theory
		lesions	and Vesiculo-	lectures	exam
			bullus lesions		
11	1	Oral ulceration and Vesiculo-bullus	Oral ulceration	Theory	Theory
		lesions	and Vesiculo-	lectures	exam
12	1	White & red lesions	bullus lesions White & red	Theory	Theory
12	1	Winte & red resions	lesions	lectures	exam
13	1	White & red lesions	White & red	Theory	Theory
13	1	White & rea resions	lesions	lectures	exam
14	1	Early detection of oral cancer	Early detection	Theory	Theory
14	1	Larry detection of oral cancer	of oral cancer	lectures	exam
15	1	Early detection of oral cancer	Early detection	Theory	Theory
13	1	Larry detection of oral cancer	of oral cancer	lectures	exam
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16	1	Pigmented oral lesions	Pigmented oral	Theory	Theory
			lesions	lectures	exam
17	1	Pigmented oral lesions	Pigmented oral	Theory	Theory
			lesions	lectures	exam
18	1	Benign, Premalignant and	Benign,	Theory	Theory
		malignant lesions of the oral cavity	Premalignant	lectures	exam
			and malignant lesions of the		
			oral cavity		
19	1	Benign, Premalignant and	Benign,	Theory	Theory
		malignant lesions of the oral cavity	Premalignant	lectures	exam
			and malignant		
			lesions of the		
			oral cavity		
20	1	Benign, Premalignant and	Benign,	Theory	Theory
		malignant lesions of the oral cavity	Premalignant	lectures	exam
			and malignant		
			lesions of the		
			oral cavity		
21	1	Benign, Premalignant and	Benign, Premalignant	Theory	Theory
		malignant lesions of the oral cavity	and malignant	lectures	exam
		Cavity	lesions of the		
			oral cavity		
22	1	Neuromuscular disorder	Neuromuscular	Theory	Theory
			disorder	lectures	exam
23	1	Neuromuscular disorder	Neuromuscular	Theory	Theory
			disorder	lectures	exam
24	1	Salivary gland diseases	Salivary gland	Theory	Theory
2.5	-		diseases	lectures	exam
25	1	Salivary gland diseases	Salivary gland diseases	Theory	Theory
26		1.		lectures	exam
26	1	Autoimmune diseases	Autoimmune diseases	Theory	Theory
27	1	A		lectures	exam
27	1	Autoimmune diseases	Autoimmune	Theory	Theory
20	1	Autoimmune diseases	diseases	lectures	exam Theory
28	1	Autominume diseases	Autoimmune diseases	Theory lectures	Theory
29	1	Oral manifestation of allerais	Oral		Theory
29	1	Oral manifestation of allergic reaction		Theory	Theory
		10000011	manifestation	lectures	exam





			of allergic		
			reaction		
30	1	Oral manifestation of allergic reaction	Oral manifestation of allergic	Theory lectures	Theory exam
			reaction		

Week	Hr	Laboratory subject	Learning	Evaluatio
			method	n method
1	2	Laboratory investigations in dentistry	Clinic	Exams
2	2	Viral infection	Clinic	Exams
3	2	Bacterial infection	Clinic	Exams
4	2	Fungal infection	Clinic	Exams
5	2	Diseases of Respiratory tract	Clinic	Exams
6	2	Diseases of cardiovascular system	Clinic	Exams
7	2	Diseases of gastrointestinal tract	Clinic	Exams
8	2	Renal diseases	Clinic	Exams
9	2	Anemia	Clinic	Exams
10	2	Leukemia	Clinic	Exams
11	2	Bleeding and clotting disorders	Clinic	Exams
12	2	Immunologic diseases	Clinic	Exams
13	2	Diseases of thyroid gland	Clinic	Exams
14	2	Diabetes mellitus	Clinic	Exams
15	2	Neuromuscular diseases	Clinic	Exams
16	2	Temporomandibular disorders	Clinic	Exams
17	2	Salivary gland disorders	Clinic	Exams
18	2	Drugs in dentistry	Clinic	Exams
19	2	Drugs induced oral lesions	Clinic	Exams
20	2	Panoramic image interpretation	Clinic	Exams
21	2	Drugs induced oral lesions	Clinic	Exams
22	2	Panoramic image interpretation	Clinic	Exams
23	2	Allergy	Clinic	Exams
24	2	Ulcerative, vesicular, and bullous lesions	Clinic	Exams
25	2	Red and white lesions of the oral mucosa	Clinic	Exams
26	2	Pigmented lesions of the oral mucosa	Clinic	Exams
27	2	Benign lesions of the oral cavity and the jaw	Clinic	Exams
28	2	Oral and oropharyngeal cancer	Clinic	Exams
29	2	LASER in oral medicine	Clinic	Exams
30	2	Geriatric oral medicine	Clinic	Exams





11. Course Evaluation

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

12. Learning and Teaching Resources				
Required textbooks (curricular books, if	1. Burket's oral medicine. Michael			
any)	Glick, Martin Greenberg, Peter			
	Lockhart and Dtephen Challacombe.			
	13th edition.2021, Wiley Black well.			
	2. Bumann, A., & Lotzmann, U. TMJ			
	disorders and orofacial pain. The role			
	of dentistry in a multidisciplinary			
	approach. 2011, Thieme.			
Main references (sources)				
Recommended books and references				
(scientific journals, reports)				
Electronic References, Websites				





			<u> </u>			
1.	Cour	se Name:				
	Research Project					
2.	Cour	se Code:				
			509 RESP			
3.	Seme	ester / Year:				
			Fifth year			
4.	Desc	ription Preparation Date	:			
			01 March 2024			
5.	Avai	lable Attendance Forms:				
		Theo	pretical and practical	al		
6.	Num	ber of Credit Hours (Tot	tal) / Number of Un	its (Total)		
Theore	etical	: 15 hours. Total units: 2				
7.	Cour	se administrator's name	(mention all, if mor	re than one nam	ne)	
Name:	Lect	Dr Ahmed Salih Khudl	nur			
		thudhur@uomosul.edu.i	q			
8.	Cour	se Objectives				
Cours	e	- Introduction to research methodology				
Objec	tives	- Study the statistics				
		- Study the principle of medical research ethics				
		- Study the academic writing and research planning				
9. Teaching and Learning Strategies						
Strate	gy	- Theory lectures	and practical labora	itories.		
		– Educational vide	os and utilization o	of smart boards.		
		 Use of education 	nal models.			
 Focused student group discussion. 						
10. Co	ourse	Structure				
Theore	etical	Part				
Week	Hr	Required Learning	Unit or subject	Learning	Evaluation	
		Outcomes	name	method	method	
1	1	Statistics	Statistics	Theory lectures	Theory exam	
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2	1	Statistics	Statistics	Theory lectures	Theory exam
3	1	Statistics	Statistics	Theory lectures	Theory exam
4	1	Medical research ethics	Medical research	Theory lectures	Theory exam
			ethics		
5	1	Medical research ethics	Medical research	Theory lectures	Theory exam
			ethics		
6	1	Biosafety	Biosafety	Theory lectures	Theory exam
7	1	Biosafety	Biosafety	Theory lectures	Theory exam
8	1	Designing research	Designing research	Theory lectures	Theory exam
9	1	Designing research	Designing research	Theory lectures	Theory exam
10	1	Designing research	Designing research	Theory lectures	Theory exam
11	1	Citation in academic	Citation in	Theory lectures	Theory exam
		writing	academic writing		
12	1	Citation in academic writing	Citation in academic writing	Theory lectures	Theory exam
13	1	Citation in academic	Citation in	Theory lectures	Theory exam
		writing	academic writing		
14	1	Planning a research	Research protocol	Theory lectures	Theory exam
		protocol			
15	1	Planning a research	Research protocol	Theory lectures	Theory exam
		protocol			

Research project dissertation – writing and presentation

11. Course Evaluation

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

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