nistry of Higher Education of Sciences
ntific supervision and evaluation device
ment of Quality Assurance and Academic Accreditation

Academic program description form for colleges and institutes for the year 2025/2024

University of Maisan

College of Dentistry

Scientific Department: Our college has one department
Date of filling the file

Name of the scientific assistant: Prof. Zainab Sabih Hassan
2025/1/9Date:

Name of the official of the Quality Assurance and University Performance Division:assistant lecturer . Afrah Adel Hassan

2025/ 1/9Date:

the signature /

Authentication of the Dean

Mr. Dr. Reda Alwan

2025/1/9

Course description form

Course Description/

Reviewing the performance of higher education institutio

((academic program review))

This course description provides a necessary summary of the
characteristics of the program and the learning outcomes that the stud
to achieve, demonstrating whether he has made the most of the ava
opportunities, and is accompanied by a description of each co

Ministry of Higher Education and Scientific Research/University of Maysan	**Educational institution.1**
College of Dentistry	**University Department .2 / Center**
Oral and dental medicine and surgery	**Name of academic or .3 professional program**
Bachelor of Oral and Maxillofacial Medicine and Surgery	**Final Certificate Name .4**
annual	**Academic system . 5**
Quality Assurance Program of the Ministry of Higher Education and Scientific Research	**Accredited .6 Certification Program**
Professional skills development training courses for students/summer training for two academic years	**External influences .7**
2024-2023	**Date this description . 8 was prepared**

The academic program aims: The field of the College of Dentistry to prepare 9 specialized medical cadres in medicine and surgery of the lips and face and special only, but at a distinguished popular and professional level for the college's clinics for dentistry, in which students are trained in modern and specialized clinics and fields of dentistry (surgery) of the mouth and face and jaws, dental industry, pediatric and preventive dentistry, orthodontics, fillings and dental cosmetics, periodontal diseases, oral diagnosis (and with the latest technologies in addition to teaching them in various scientific and applied laboratories and the duration of study in the college is five years.

Health Learning Outcomes Required for Learning and Assessment .10
A- Knowledge and understanding - Aspects of strength and weakness in educational activity and identifying the 1A. effectiveness of inputs and processes in addition to learning growth. - Formulating behavioral objectives, knowledge, educational and health experiences.2A. - The extent of proximity and distance from educational objectives and achieving them.3A. - The effectiveness of the educational process and focusing on mental and non-mental 4A. skills among students and not focusing on memorization. - Levels of achievement and quality of education.5A. - Providing opportunities for students to interact with educational means and learning 6A. technology through modern curricula
B - Program specific skill objectives: - Enhancing the graduates' professional ethics and dealing with patients1B - Students acquire problem-solving and critical thinking skills2B - Enhancing continuous and focused interest in the principle of lifelong learning in 3B order to continue developing the profession - Graduates must demonstrate a high level of ability to collect, analyze and integrate 4B theoretical information in order to provide appropriate oral health care procedures.

Teaching and learning methods
- Delivering lectures.
- Providing students with lectures on the college website.
- Educational films.
- Projectors and digital cameras.
- Using educational models.
- Training courses and workshops.
- Pre-clinical and applied clinical education.
- Student groups.
- Electronic classes

Evaluation Methods

- Theoretical tests.
- Oral tests.
- Laboratory practical tests.
- Practical tests on mannequins.
- Practical tests on patients.
- Reports and studies.
- Evaluation of students' performance in the graduation project in the final year and their ability to apply the required knowledge and evaluate the results of the project

C- Emotional and value-based objectives:

- Thinking skill according to the student's ability (let's think about thinking ability) 1C The goal of this skill is for the student to believe in what is tangible (the student's ability) and understand when, what and how he should think and work on improving the ability to think reasonably.

- Critical thinking skill, which aims to pose a problem, analyze it logically and reach 2C the required solution.

- The student's awareness of the necessity of balancing freedom and responsibility.3C

- The skill of making the right decision for the benefit of the patient and based on 4C logical thinking.

Teaching and learning methods

-Lectures that encourage students to research and learn how to deal with and solve problems.
- Monitoring students' thinking, expression, and response speed.
- Experiments in laboratories.
- Self-education
- Educational clinics
- E-classes

Evaluation Methods

- Theoretical Tests1

- Practical Tests2 -

- Reports and Studies.3 -

Course structure -11

Credit hours		name of course	Course code or	Academic level
practical	Theoretical p			
60	30	Human Anatomy		
0	30	Medical Terminology		
60	30	Computer Sciences		
60	30	Dental Anatomy		first
0	30	Human Rights And Democracy		
60	60	Medical Chemistry		

60	60	Medical Physics		
60	60	Medical Biology		
0	30	English Language		
60	30	Dental Material		**Second**
120	30	Prosthodontics		
60	60	Biochemistry		
60	60	General Histology		
60	60	General Physiology		
60	30	Oral Histology		
60	30	Human Anatomy		
60	60	Microbiology		**Third**
60	60	Pharmacology		
60	30	Community Dentistry		
180	60	Conservative dentistry		
60	30	Dental Radiology		
60	60	General Pathology		

60	30	Oral Surgery		
60	30	Prosthodontics		
90	30	General Medicine		**fourth**
60	30	General Surgery		
120	30	Oral Surgery		
180	30	Conservative dentistry		
90	60	Oral Pathology		
120	30	Orthodontic		
0	30	Pedodontic		
120	30	Periodontics		
90	30	Prosthodontics		
180	30	Conservative dentistry		fifth
60	30	Oral Medicine		
120	30	Oral Surgery		
90	30	Pedodontic		
90	30	Prevention		

180	30	Prosthodontics		
90	30	Orthodontic		
120	30	Periodontics		
0	120	Research project		

Planning for personal development -12

Negotiation and persuasion: The student should be able to influence, persuade, discuss and reach an agreement with others.

Leadership: The student should be able to lead, motivate and direct others.

Independence in work: The student should be able to bear responsibility and work independently under various circumstances.

Admission criteria (setting regulations for admission to the college or institute)-13

Admission criteria include students who have a certain GPA according to the central admission system, as well as students who have the physical, mental and social ability to manage any medical condition or practice required by the study. Most dental schools require personal interviews with candidates to assess qualities such as the desire to help people, self-confidence, ability to face 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 website.
2 - University guide
3 - Books and scientific resources related to the college.

- 3- Educational clinics 2- College classrooms 1Infrastructure: - 15 Laboratories	
Scientific Resources -1 - Free Books / Free Education2	**Required readings: ▪** **▪Basic texts ▪** **▪Course books ▪** **▪Other ▪**
Multiple sites such as WHO, UNICEF, etc	**Special requirements (including, for example, workshops, periodicals, software, and websites)**
- Holding practical workshops for teaching staff -1 **- Discussing the curriculum decisions and their suitability to reality -2** **Enhancing cooperation with the mother university (Baghdad Dentistry) -3**	**Curriculum Development Plan**

Curriculum Skills Chart																			
Individual knowledge of the program being evaluated																			
Please tick the boxes corresponding to the learning outcomes required by the program.																			
General and transferable skills (other skills related to employability and personal development)(				**Emotional and value goals**				**Program Skill Objectives**				**Cognitive objectives**				**Essential or optional?**	**Course name**	**Course code**	**Year/Level**
4d	**3d**	**2d**	**1d**	**4c**	**3c**	**2c**	**1c**	**4b**	**B3**	**2b**	**1b**	**A 4**	**3a**	**2a**	**1a**				
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	essential	**Human anatomy**		First year
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	**essential**	**Terminology**		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	**essential**	**Computer**		

		✓	✓			✓	✓				✓			✓	✓	essential	**Dental Anatomy**		**Second year**
			✓			✓	✓			✓	✓			✓	✓	**essential**	**Human Rights And Democracy**		
✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	essential	**Medical Chemistry**		
		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	essential	**Medical Physics**		
		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	essential			
✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	essential	**Medical Biology** ١		
						✓	✓		✓	✓	✓			✓	✓	essential	**English) (Language**		

			✓			✓	✓			✓	✓		✓	✓	✓	essential	**Dental Material**		
				✓	✓	✓	✓			✓	✓			✓	✓	essential	**Prosthodontics**		
✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	essential	**Biochemistry**		
	✓	✓	✓				✓			✓	✓		✓	✓	✓	essential	**General Histology**		
			✓			✓	✓				✓			✓	✓	essential	**General Physiology**		
		✓	✓			✓	✓		✓	✓	✓			✓	✓	essential	**Embryology &Oral Histology**		

✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	essential	**Human Anatomy**		

			✓			✓	✓		✓	✓	✓	✓	✓	✓	✓	essential	**Microbiology**		**Third year**
			✓			✓	✓			✓	✓	✓	✓	✓	✓	essential	**Pharmacology**		
✓	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	essential	**Community Dentistry**		
			✓			✓	✓			✓	✓			✓	✓	essential	**Conservative dentistry**		
			✓				✓		✓	✓	✓	✓	✓	✓	✓	essential	**Dental Radiology**		

			✓				✓		✓	✓	✓	✓	✓	✓	✓	essential	**Dental Ethics**		
			✓				✓		✓	✓	✓		✓	✓	✓	essential	**General Pathology**		

			✓			✓	✓		✓	✓	✓	✓	✓	✓	✓	essential	**Oral Surgery**		**Fourth year**
			✓			✓	✓			✓	✓	✓	✓	✓	✓	essential	**Prosthodontics**		
			✓				✓			✓	✓		✓	✓	✓	essential	**General Medicine**		

			✓				✓			✓	✓		✓	✓	✓	essential	**General Surgery**	
			✓				✓		✓	✓	✓	✓	✓	✓	✓	essential	**Oral Surgery**	
			✓			✓	✓			✓	✓		✓	✓	✓	essential	**Conservative Dentistry**	

			✓			✓	✓		✓	✓	✓	✓	✓	✓	✓	essential	**Oral Pathology**	
			✓			✓	✓			✓	✓	✓	✓	✓	✓	essential	**Orthodontic**	

✓	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	essential	**Pedodontic**		
✓	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	essential	**Periodontics**		
			✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	essential	**Prosthodontics**		
			✓			✓	✓		✓	✓	✓	✓	✓	✓	✓	essential	**Conservative Dentistry**		

			✓				✓		✓	✓	✓		✓	✓	✓	essential	**Oral Medicine**		**Fifth year**

			✓			✓	✓	✓	✓	✓	✓			✓	✓	essential	**Oral Surgery**	
✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	essential	**Pedodontic**	
						✓	✓		✓	✓	✓		✓	✓	✓	essential	**Prevention**	
			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	essential	**Prosthodontics**	
			✓				✓		✓	✓					✓	essential	**Orthodontics**	
✓	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	essential	**Periodontics**	

Required Textbooks -16

1. Dentistry for child &adolescent
2. Herbert T. Shillingburg
3. Restorative dental material ,Robert graig and john m powers
4. Ingles Endodontics
5. Pathway to the pulp
6. Primary prevention dentistry (Harris)
7. Bouchers prosthodontics treatment for edentulous patient
8. McCrackens removable partial prosthodontics
9. Peterson text book ,killy&k handbook
10. Outline of oral surgery
11. Snell clinical anatomy
12. Medical biology (textbook)
13. Human anatomy
14. Contemporary oral and maxillofacial surgery ,james r. hupp,Edwardellis, Myron trucker
15. Textbook of oral and maxillofacial surgery ,gustavkruger
16. Dental mangment od medically compromised patient ,games little ,Donald falace ,griage miller ,nelson rhodus
17. Harpers biochemistry
18. Textbook of clinical periodontology
19. Carranza clinical periodontology
20. Clinical periodontology and implant dentistry
21. Guytor of Hall textbook of physiology
22. Medical physics by Cameron
23. Introduction to orthodontic (lawra Mitchel) profit contemporary orthodontic .24

Curriculum Development Plan: -17

A programmed plan was developed to develop the study plan for the Department of Dentistry

in various subjects for various stages by following up on developments and updates in a number of reputable universities and colleges inside and outside the country. Many seminars and conferences were held for students in the final stages to keep pace with developments. This activity was positively reflected on the study curricula for all final stages in particular.

Course Description Form

Review of the performance of higher education institutions ((academic program review))

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating ي whether the student has made the most of the learning opportunities available. It must be linked to the programme description.

University of Maysan / College of Dentistry 1. Educational Institution	University of Maysan / College of Dentistry 1. Educational Institution
Branch of Basic Medical Sciences 2. Scientific Department / Center	Branch of Basic Medical Sciences 2. Scientific Department / Center
Human Anatomy General Anatomy 3. Course Name	Human Anatomy General Anatomy 3. Course Name
Weekly 4. Available Attendance Forms	Weekly 4. Available Attendance Forms
First and Second Semester for the First Stage 5. Semester / Year	First and Second Semester for the First Stage 5. Semester / Year
30 theoretical hours and 60 practical hours 6. (Number of study hours) Total	30 theoretical hours and 60 practical hours 6. (Number of study hours) Total
2023-2024	2023-2024
7. Date of preparation of this description	

9. Learning outcomes, teaching and learning methods and assessment
A- Cognitive objectives
A1- Gain knowledge about human anatomy A2- Focus on head and neck anatomy A3- Its relationship to his specialty as a dentist.
B- Course specific skill objectives
B1- The relationship of human anatomy to the student's work as a dentist.
B2- Gain full knowledge of the human body organs.
Theoretical exams.a
Practical exams.
Oral exams.

Quick exams.
Teaching and learning methods
Lectures that research and teach students on ways to confront and solve problems.

The first stage

10. بنية المقرر					
Evaluation method	method Teaching	Unit name/topic	Required learning outcomes	week	hour
Theoretical exams	Theoretical exams	Theoretical exams	Introduction to Human Anatomy Descriptive Anatomic Terms	1	1
Short, semester, and	Short, semester, and	Short, semester, and	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	1	2
mid-year and final Theoretical lecture using power point	mid-year and final Theoretical lecture using power point	mid-year and final Theoretical lecture using power point	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	1	3
General Anatomy	General Anatomy	General Anatomy	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	1	4
Theoretical exams	Theoretical exams	Theoretical exams	Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	1	5
Short, semester, and	Short, semester, and	Short, semester, and	Skeletal system of the body: Skull :Cranial Bones	1	6
mid-year and final Theoretical lecture using power point General ... Final theoretical lecture using power point program General Anatomy	mid-year and final Theoretical lecture using power point General ... Final theoretical lecture using power point program General Anatomy	mid-year and final Theoretical lecture using power point General ... Final theoretical lecture using power point program General Anatomy	Skeletal system of the body: Skull :Cranial Bones	1	7
Theoretical exams	Theoretical exams	Theoretical exams	Skeletal system of the body: Skull : Facial Bones	1	8
Short, semester, and	Short, semester, and	Short, semester, and	Skeletal system of the body: Skull : Facial Bones	1	9
mid-year and final Theoretical lecture using power point	mid-year and final Theoretical lecture using power point	mid-year and final Theoretical	External Views of the Skull	1	10

program General Anatomy	program General Anatomy	lecture using power point program General Anatomy			
Theoretical exams	Theoretical exams	Theoretical exams	External Views of the Skull	1	11
Short, semester, and	Short, semester, and	Short, semester, and	The Cranial Cavity Major Foramina and Fissures locations and structures pass through Neonatal Skull	1	12
mid-year and final Theoretical lecture using power point program General Anatomy	mid-year and final Theoretical lecture using power point program General Anatomy	mid-year and final Theoretical lecture using power point program General Anatomy	The Cranial Cavity Major Foramina and Fissures locations and structures pass through Neonatal Skull	1	13
Theoretical exams	Theoretical exams	Theoretical exams	Skeleton of the Orbital Region, Openings into the Orbital Cavity Skeleton of the External Nose, nasal cavity, Paranasal Sinuses Auditory ossicles Hyoid bone	1	14
Short, semester, and	Short, semester, and	Short, semester, and	Skeleton of the Orbital Region, Openings into the Orbital Cavity Skeleton of the External Nose, nasal cavity, Paranasal Sinuses Auditory ossicles Hyoid bone	1	15
Evaluation method Teaching method Unit name / subject	Evaluation method Teaching method Unit name / subject	Evaluation method Teaching method Unit name / subject	The Vertebral Column	1	16
Theoretical exams	Theoretical exams	Theoretical exams	The Vertebral Column	1	17
Short, semester, and	Short, semester, and	Short, semester, and	Structure of the Thoracic Wall Joints of the Chest Wall Suprapleural Membrane Diaphragm Surface Anatomy	1	18
mid-year and final Theoretical lecture using power point	mid-year and final Theoretical lecture using power point	mid-year and final Theoretical lecture using power point	Structure of the Thoracic Wall Joints of the Chest Wall Suprapleural Membrane Diaphragm Surface Anatomy	1	19
General Anatomy	General Anatomy	General Anatomy	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	1	20
Theoretical exams	Theoretical exams	Theoretical	Thoracic cavity: Mediastinum,	1	21

		exams	Pleurae, Trachea, Bronchi, Lungs		
Short, semester, and	Short, semester, and	Short, semester, and	Pericardium, Heart, Large arteries, veins and nerves of thorax	1	22
mid-year and final Theoretical lecture using power point General ... Final theoretical lecture using power point program General Anatomy	mid-year and final Theoretical lecture using power point General ... Final theoretical lecture using power point program General Anatomy	mid-year and final Theoretical lecture using power point General ... Final theoretical lecture using power point program General Anatomy	Pericardium, Heart, Large arteries, veins and nerves of thorax	1	23
Theoretical exams	Theoretical exams	Theoretical exams	Pericardium, Heart, Large arteries, veins and nerves of thorax	1	24
Short, semester, and	Short, semester, and	Short, semester, and	Bones of the Shoulder (Pectoral girdle) girdles Bones of the Upper extremities	1	25
mid-year and final Theoretical lecture using power point program General Anatomy	mid-year and final Theoretical lecture using power point program General Anatomy	mid-year and final Theoretical lecture using power point program General Anatomy	Bones of the Shoulder (Pectoral girdle) girdles Bones of the Upper extremities	1	26
Theoretical exams	Theoretical exams	Theoretical exams	Bones of the Pelvic girdle Bones of the Lower extremities	1	27
Short, semester, and	Short, semester, and	Short, semester, and	Bones of the Pelvic girdle Bones of the Lower extremities	1	28
mid-year and final Theoretical lecture using power point program General Anatomy	mid-year and final Theoretical lecture using power point program General Anatomy	mid-year and final Theoretical lecture using power point program General Anatomy	Abdominal cavity and organs	1	29
Theoretical exams	Theoretical exams	Theoretical exams	Abdominal cavity and organs	1	30

Laboratory sessions

No.	Title of the sessions	Hours
1	Introduction to anatomy	2
2	Basic structures part 1 (Skin, Fasciae, Muscle, Joints, Ligament, Bursae)	2
3	Basic structures part 2 (bone,Cartilage, Blood Vessels, Lymphatic System) and classification of human skeleton	2
4	Basic structures part 3(Nervous System, Mucous Membranes, Serous Membranes)	2
5	Frontal Bone, Parietal bones	2
6	Occipital bone	2
7	Temporal bones	2
8	Sphenoid bone	2
9	Ethmoid bone	2
10	Zygomatic bones Maxillae	2

15	Major Foramina and Fissures locations and structures pass through the skull	**2**
16	Orbit	**2**
17	nasal cavity	**2**
18	Auditory ossicles , Hyoid bone	**2**
19	General Characteristics of a Vertebra	**2**
20	Vertebral column	**2**
21	Structure of the Thoracic cage (Sternum ,Ribs, Costal Cartilages)	**2**
22	Thoracic cavity (Mediastinum, Pleurae, Trachea, Bronchi)	**2**
23	lung	**2**
24	Anatomy of heart	**2**
25	Major arteries, veins and nerves of thorax	**2**
26	Bones of the Shoulder (Pectoral girdle) girdles	**2**
27	Bones of the Upper extremities	**2**
28	Bones of the Pelvic girdle	**2**
29	Bones of the Lower extremities	**2**
30	Abdominal cavity and organs	**2**
Total		**60**

11. Infrastructure	11. Infrastructure
1. Snell's Clinical anatomy 10th edition. Wolters Kluwer 2019.	1. Snell's Clinical anatomy 10th edition. Wolters Kluwer 2019.
1- Required textbooks	1- Required textbooks
2. Netter's head and neck anatomy for dentistry 3nd edition 2017.	2. Netter's head and neck anatomy for dentistry 3nd edition 2017.

12. Curriculum Development Plan
- Developing the curriculum content by deleting, adding and replacing.

. Educational Institution1University of Maysan / College of Dentistry
. Scientific Department / Center2Branch of Basic Medical Sciences
. Course Name3Arabic Language Arabic
. Available Attendance Forms4Weekly
. Semester / Year5First and Second Semester of the First Stage
. Number of Study Hours (Total)6 Theoretical Hours 30
. Date of Preparation of this Description7 2024-2023

. Learning Outcomes and Teaching, Learning and Evaluation Methods9
-3- A2- A1A- Cognitive Objectives A
- 2 - B1B- Course Skill Objectives B
Teaching and Learning Methods
) Power Point (Data Show Lectures Using the Program
Guiding Students to Some Websites to Benefit from Them.
Evaluation Methods
Theoretical Exams.
Oral Exams.
Quick Exams.
C- Emotional and Value Objectives
- Enhancing Emotional and Value Objectives Through Problem-Based Learning.1C
- Acquiring the Basic Principles Set On it in the learning curriculum.2C

- Developing the student's ability to discuss and dialogue.3A
-4A

Teaching and learning methods
Lectures that research and teach students on ways to confront and solve problems.
Following up on students' way of thinking, ways of expressing themselves and their speed of response.
Evaluation methods
- Theoretical exams.
.-2- D1D- General and transferable skills (other skills related to employability and personal development.) D
-3D
-5- D4D
10- Course Structure
Hours Lecture Topic Number
1 Literary Topics
Al-Mutanabbi (The Poet's Life with a Poem in Addition to a Critical Commentary) 1
1 Badr Shakir al-Sayyab (The Poet's Life with a Poem in Addition to a Critical Commentary) 2
1 Nazik al-Malaika (The Poet's Life with a Poem in Addition to a Critical Commentary) 3
1 al-Jawahiri (The Poet's Life with a Poem in Addition to a Critical Commentary) 4
1 Grammatical Topics Nominal Sentence 5
1 Verbal Sentence 6
1 Subject 7
1 Predicate 8

1 Abrogators 9
1 Original and Subordinate Marks in the Noun and the Present Verb 10
1 Subordinate Marks in the Noun and the Present Verb 11
1 Subordinate Marks of the Accusative 12
1 Subordinate Marks of the Jarr 13
1 Subordinate Marks of the Jazm 14
1 Morphological Topics Derivatives 15
1 Active Participle 16
1 Exaggeration Formulas 17

1 Passive participle 18

1 The bare and augmented verb 19

1 Masculine and feminine and signs of femininity 20

1 Defective noun 21

1 Plural of the definite noun 22

1 Shortened noun 23

1 Plural of the shortened noun 24

1 Extended noun 25

1 Plural of extended noun 26

1 Plurals of broken nouns 27

1 Spelling topics.
Deletion and addition Letters that delete Letters that are added 28

1 The shortened alif and the extended alif The tied ta and the open ta The dad and the dhad 29

1 The hamza and its rules Punctuation marks 30

30 Total

11. Infrastructure
Arabic language for non-specialization departments Qahtan Rashid, Rashid Abdul Rahman 1. Required textbooks
Benefit from the lectures published on the college website 2. (Main References) Sources
College Website A (Recommended Books and References
)Scientific Journals, Reports....., (
B (Electronic References, Internet Sites.....,

University of Maysan / College of Dentistry 1. Educational Institution
Branch of Basic Medical Sciences 2. Scientific Department / Center
Computer Sciences Computer Sciences 3. Course Name R
Weekly 4. Available Attendance Forms
First and Second Semester of the First Stage 5. Semester / Year
60 Practical Hours + 30 Theoretical Hours 6. Number of Study Hours (Total)
2023-2024 7. Date of Preparation of this Description

8. Course Objectives:
Introduction to Computer Science and teaches the student the performance of computers and approved methods, programs and the use of computers in the medical field

9. Learning Outcomes and Methods of Teaching, Learning and Evaluation
A- Cognitive Objectives
A1- Teaching the student how to use the computer A2- How to use programs
B- Course Skill Objectives B1 Teaching the student the functions of using the computer B2- Using the computer in the medical field
Teaching Methods Learning

Educational media Computers
Guiding students to some websites to benefit from them.

Evaluation methods

Practical exams
Quick exams.
C- Emotional and value goals
C1- Enhancing emotional and value goals through problem-based learning.
C2- Acquiring the basic principles stipulated in the learning curriculum.
C3- Developing the student's ability to discuss and dialogue.
C4- Encouraging the student to link the use of information technology to work as a dentist.

Teaching and learning methods
Lectures that research and teach students on ways to confront and solve problems.
Following up on students' way of thinking, ways of expressing themselves, and speed of response.

Evaluation Methods

- Practical Exams
D- General and Transferable Skills (Other Skills Related to Employability and Personal Development.) D1- Practical preparation of the student in terms of applying the use of computers in his work.
D2- Thinking about solving problems.
D3- Teaching professional ethics.
D4- Skills acquired by the student to become experienced in using information technology.
D5- Developing the student's ability to deal with multiple means of learning.

(Course structure).10

Evaluation method	method Teaching	Unit name/topic	Required learning outcomes	week	hour
Practical exams	Classrooms	Computer Science	Introduction about compute /Hardware and Software/computer structure/`Floppy magnetic Disks	2	1
Practical exams	Classrooms	Computer Science	Operating systems/CD ROM/	2	2
Practical exams	Classrooms	Computer Science	Create Files &Folders High level programming language /Constant and variable/Library Function /Arithmetic expression/Type of Monitor /Number of systems	2	3
Practical exams	Classrooms	Computer	DOS commands /Internal	2	5

		Science	Commands/External Commands		
Practical exams	Classrooms	Computer Science	Introduction about Windows /A look at Windows 7/Stating Windows XP/Working with a windows Program	2	6
Practical exams	Classrooms	Computer Science	Working with files and folders/ Using My computer	2	7
Practical exams	Classrooms	Computer Science	Working with Taskbar and Desktop	2	8
Practical exams	Classrooms	Computer Science	Using Windows Accessories	2	9
Practical exams	Classrooms	Computer Science	A look at Control Panel	2	10
Practical exams	Classrooms	Computer Science	Widows Explorer	2	11
Practical exams	Classrooms	Computer Science	Libraries	2	12
Practical exams	Classrooms	Computer Science	Introduction about Microsoft Word A look at Microsoft Word /Editing Document	2	13
Practical exams	Classrooms	Computer Science	Formatting Text/	2	14
Practical exams	Classrooms	Computer Science	Formatting paragraphs	2	15
Practical exams	Classrooms	Computer Science	Proofing documents	2	16
Practical exams	Classrooms	Computer Science	Adding Tables	2	17
Practical exams	Classrooms	Computer Science	Inserting Graphic Elements	2	18
Practical exams	Classrooms	Computer Science	Controlling page Appearance	2	19
Practical exams	Classrooms	Computer Science	Introduction about Excels /A Look at Microsoft Excel	2	20
Practical exams	Classrooms	Computer Science	Modifying A Worksheet /performing Calculations	2	21
Practical exams	Classrooms	Computer Science	Formatting a worksheet/ Developing a work book	2	22
Practical exams	Classrooms	Computer Science	Printing Workbook Contents/Customizing Layout	2	23
Practical exams	Classrooms	Computer	Introduction about Microsoft Access/ A look at	2	24

		Science	Microsoft Access		
Practical exams	Classrooms	Computer Science	Creating Data tables /properties of the fields	2	25
Practical exams	Classrooms	Computer Science	Querying the database/Designing Forms/Producing reports	2	26
Practical exams	Classrooms	Computer Science	Introduction about Microsoft Power point/starting power point	2	27
Practical exams	Classrooms	Computer Science	Formatting text/Using graphics and Text	2	28
Practical exams	Classrooms	Computer Science	Manipulating the slides/Using Multimedia Elements	2	29
			Power point Management	2	30

No.	Lab. Experiment	Hours
1	Introduction about computer /Hardware and Software/computer structure/` Floppy magnetic disks.	2
2	Operating systems/CD-ROM/	2
3	Create Files &Folders High level programming language /Constant and variable/Library Function /Arithmetic expression/Type of Monitor /Number of systems	2
4	Introduction about MS-DOS Operating systems/DOS drive /Key-Board	2
5	DOS commands /Internal Commands/External Commands	2
6	Introduction about Windows /A look at Windows 7/Stating Windows 7/Working with a windows Program	2
7	Working with files and folders/ Using My computer	2
8	Working with Taskbar and Desktop	2
9	Using Windows Accessories	2
10	A look at Control Panel	2
11	Widows Explorer	2
12	Libraries	2
13	Introduction about Microsoft Word A look at Microsoft Word /Editing Document	2
14	Formatting Text/	2
15	Formatting paragraphs	2
16	Proofing documents	2
17	Adding Tables	2
18	Inserting Graphic Elements	2
19	Controlling page Appearance	2
20	Introduction about Excels /A Look at Microsoft Excel	2
21	Modifying A Worksheet /performing Calculations	2
22	Formatting a worksheet/ Developing a work book	2
23	Printing Workbook Contents/Customizing Layout	2
24	Introduction about Microsoft Access/ A look at Microsoft Access	2
25	Creating Data tables /properties of the fields	2
26	Querying the database/Designing Forms/Producing reports	2
27	Introduction about Microsoft Power point/starting power point	2
28	Formatting text/Using graphics and Text	2
29	Manipulating the slides/Using Multimedia Elements	2
30	Power point Management	2
Total		60

1. Infrastructure
E-learning concepts and techniques 1. Required textbooks

E-learning concepts and techniques
2. (Main references) Sources
Mousa Afaneh, vince basile, justin bennett, pamela berman, Michael bond A (Recommended books and references) Scientific journals, reports....., (
College website B (Electronic references, Internet sites.....,

12. Curriculum development plan
-Developing the academic content by deleting, adding and replacing.
-Using modern teaching methods that suit the level of learners from time to time.
-Updating assessment methods and measuring students' level.
-Encouraging e-learning.
-Providing the student with the skills required by the dental profession and the changes of the era.

University of Maysan / College of Dentistry 1. Educational institution
Branch of Basic Medical Sciences 2. Scientific Department / Center
Human Rights 3 . Name Course
Weekly 4. Available forms of attendance
Two semesters/first stage 5. Semester/year
30 hours of study 6. (Number of study hours) Total
2023-2024 7. Date of preparation of this description

8. Course objectives
The program provides a sure opportunity and a first step for the student in defining his rights as well as objective commitment and awareness of his duties.
The course also seeks to spread the culture of education on human rights in order to build a cohesive society in which justice, freedom and equality prevail.
9. Learning outcomes, teaching and learning methods and assessment
A- Cognitive objectives
A1- The student knows his rights
A2- The student knows his duties towards society A3- A4- A5- A6-
B- Skill objectives specific to the course B1- The student knows his rights
B2- The student knows his duties towards society B3- B4-

Teaching and learning methods
Lectures and seminars

Evaluation methods
Exams

C- Emotional and value objectives C1- Problem solving

C2- Leadership ability

Teaching and learning methods
Theoretical lectures
Evaluation methods
Exams T
D- General and transferable skills) Other skills related to employability and personal development. (D1- Prepare it scientifically and culturally D2- D3- D4-

10- Course structure
Hours T Lecture topic Number
1 Introduction / Chapter One in Human Rights
Chapter One / Rights Man in Ancient Civilizations
Section One / Human Rights in Greek and Egyptian Civilizations Requirement One / Human Rights in Greek Civilization Requirement Two / Human Rights in Ancient Egyptian Civilization Requirement Two / Human Rights in Ancient Civilizations
1
1 Chapter Two / Human Rights in Divine Laws and Religions
Section One / Human Rights in Christian and Jewish Religions Requirement Two / Human Rights in Islam
2
1 Chapter Three / Sources of Human Rights Section One / International Sources
Section One / Universal Declaration of Human Rights
3
1 Requirement Two / The Two International Covenants on Human Rights
4
1 Section Two / National Sources Requirement One / The French Declaration of the Rights of Man and the Citizen (August 26, 1789)
5
1 Requirement Two / French Constitutions and Declarations that Followed the Declaration of Rights of 1789
6
1 Requirement Three / Constitution of the Republic of Iraq of 2005
7
1 Chapter Four /Human Rights Guarantees
The first section /Human Rights Guarantees at the domestic level The first requirement /Constitutional guarantees
8
1 The second requirement /Judicial guarantees
9
1 The second section /Human Rights Guarantees in Islam
The first requirement /Recognition of the principle of dual responsibility in Islamic society The second requirement /The religious character of Islamic law.

1	The third requirement / Some Islamic systems for the benefit of the individual, the group and the ruling authorities	11
1	The third section / Guarantees of human rights at the international level	12
1	The first requirement / The Charter of the United Nations The second requirement / The General Assembly of the United Nations	13
1	The third requirement / The Economic and Social Council The fourth requirement / The Human Rights Council	14
1	The fourth section / The role of regional organizations in protecting human rights The first requirement / The European Convention on Human Rights	15
1	The second requirement / The American Convention on Human Rights	16
1	The third requirement / The African Charter on Human and Peoples' Rights	17
1	The fourth requirement / The Arab Charter on Human Rights	18
1	Chapter Five / The Future of Human Rights	19
1	The first section / Technological progress and its impact on rights and freedoms Human rights and public freedoms.	20
1	The first requirement / Political parties and human rights The second requirement / The role of the media and upbringing	21
1	The second section / Globalization and human rights	22
1	The first requirement / Privacy and human rights The second requirement / Hegemony and human rights	23
1	The first chapter / The concept of democracy, its development, definition and dimensions The first section / The roots of the concept of democracy and its development	24

1	The second section / Definition of democracy	25
1	The third section / Democracy between universality and privacy.	26
1	The second section / The problem of democracy	27
	The first research / Direct democracy	
1	The first requirement / The content of direct democracy	28
1	The second requirement / Applications of direct democracy	29
1	The third requirement / The majority system and the proportional representation system. The fourth requirement / The interest representation system. The fifth requirement / The optional voting system and the compulsory voting. The sixth requirement / The secret voting system and the public voting.	30
30		Total

11. البنية التحتية	
There are many sources that the program relies on, including but not limited to: Dr. Riyadh Aziz Hadi / Human Rights, Their Development, Content and Protection, University of Baghdad, College of Basic Sciences, 2009	. Required textbooks
	2. (Main references) Sources
	A) Recommended books and references
	(Scientific journals, reports....., (

12. Curriculum Development Plan
- Developing the curriculum content by deleting, adding and replacing.

University of Maysan / College of Dentistry	1. Educational Institution
Branch of Basic Medical Sciences	2. Academic Department/Center
Medical Inorganic Chemistry	3. Course Name
Weekly	4. Available Attendance Forms
Two semesters / First stage	5. Semester/Year
60 theoretical hours + 60 practical hours	6. Total (Number of Study Hours)
2023-2024	7. Date of Preparation of this Description

Change in the concentrations of substances on the health of the body Blood week Y and its effects on the functions of organs A2- Understanding the variables that occur when	Change in the concentrations of substances on the health of the body Blood week Y and its effects on the functions of organs A2- Understanding the variables that occur when
4. A3- Forms- The relationship between the available presence of acid and alkaline on	
A4- Buffer solutions and its system A	A4- Buffer solutions and its

	system A
5. A5- The chapter / age Pollution and its impact on human health and the environment Two semesters / first stage	5. A5- The chapter / age Pollution and its impact on human health and the environment Two semesters / first stage
Radiation on human health	
A6- Radiochemistry and its effects A	
Registered B - The skill objectives of the course	
Date 1 - This was prepared according to the method of description of the teaching used, 2023-like 2024 Discussion Lecture, questioning..	
B2- Using laboratories and practical experiments to increase the student's understanding and see it practically A	
B Objectives 3- The course method of surprise exams and quizzes	
Introduction to teaching methods Medical chemistry and learning and general, organic and life chemistry	
The teaching method changes according to the student's awareness and interaction with the lecture. It may be the discussion method or the Questioning or the method of inference and deduction... and all methods may be at the same time in addition to using laboratories and practical experiments to increase the student's understanding and awareness...	
Evaluation methods	

Course structure .10					
Evaluation method	method Teaching	Unit name/topic	Required learning outcomes	week	hour
hort, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Acid, Base and Salt	2	1
Short, Term, Mid-Year and Final Exams	The ... point	Medical Chemistry	salts, preparation of salts	2	2
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Fluid and electrolyte	2	3
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Buffer-pH and Acid Base Balance	2	4
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	acid-base balance and blood pH	2	5
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Colloids and colloidal dispersions	2	6
Short, Term, Mid-Year and Final Exams	The ... point	Medical Chemistry	Chirality in Biological Systems	2	7
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	concentration, preparation of solutions	2	8
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Pollution	2	9
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Radiochemistry	2	10
Short, Term, Mid-Year and Fin	Theoretical lecture using power point	Medical Chemistry	Alkanes and Cycloalkanes	2	11
hort, Term, Mid-Year and Final Exams	The ... point	Medical Chemistry	Alkenes and Alkynes	2	12
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Aromatic compounds	2	13
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Aromatic compounds in Nature	2	14
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Stereoisomers of Carbon	2	15
Short, Term, Mid-Year and Final	Theoretical lecture using power point	Medical Chemistry	Diastereomers	2	16

Exams					
Short, Term, Mid-Year and Final Exams	The ... point	Medical Chemistry	Alcohols, Phenols, Ethers and Thiols (preparation, reactions)	2	17
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Carboxylic Acids And Their Derivatives , part 1	2	18
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Carboxylic Acids And Their Derivatives , part 2	2	19
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Aldehydes and ketones	2	20
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Carbohydrates	2	21
Short, Term, Mid-Year and Fin	The ... point	Medical Chemistry	Monosaccharide's	2	22
hort, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Disaccharides Carbohydrates and oral health	2	23
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Lipids	2	24
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Derived lipids The role of lipids in teeth diseases	2	25
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Proteins	1	26
Short, Term, Mid-Year and Final Exams	The ... point	Medical Chemistry	Amino acids Effects of protein on oral health	1	27
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Nucleic Acids	1	28
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Nucleosides, Nucleotides	1	29
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Medical Chemistry	Dioxy and ribo Nucliec acids	1	30

11. البنية التحتية

Chemical Bases of life, Textbook of Biochemistry , General Chemistry principle and applications of Inorganic, Organic and Biochemistry	1. Required textbooks
George H.Schmid Nicholson. W.J	2. (Main references) Sources
The chemical basic of life The chemistry of medical and dental materials	A) Recommended books and references
موقع الكلية الالكتروني	(Scientific journals, reports....., (

.	Subject /theory	Time/Hr.
1	Introduction to biosafety and biosecurity Occupational safety and health Key components of bio-risk management Definition & concepts of biosecurity &biosafety	1
2	Universal safety precaution Components of biosafety in all labs Biosafety barriers in labs Personal Protective Equipment (PPE) Facility design	1
3	Bio-risk Management System Assess the capability of the laboratory Staff control Relation of risk groups of biosafety level, practices and equipment	1
4	Transportation of biological material International transport regulation The basic triple packaging system	1
5	Safety for support staff Laboratory Hygiene Engineering and building maintenance services	1

12. Curriculum Development Plan

- Developing the curriculum content by deleting, adding and replacing.
- Using modern teaching methods that suit the level of learners from time to time.
- Updating assessment methods and measuring students' level.
- Encouraging e-learning.
- Providing the student with the skills required by the dentistry profession and the changes of the era.

Laboratory sessions

Lab number	Study unit title	Hours
1	Action of Strong Base and Acids	2
2	Solubility rules and Applications . (Solubility rules of salts)	2
3	Test for negative ions (Anions).Part I	2
4	Test for negative ions (Anions).Part II	2
5	PH meter	2
6	Test for positive ions (Cations).Part I	2
7	Test for positive ions (Cations).Part II	2
8	Titration	2
9	Safety of chemical part 1	2
10	Safety of chemical part 2	2
11	Hydrocarbons	2
12	Aliphatic hydrocarbons	2
13	Aromatic hydrocarbons(part 1)	2
14	Aromatic hydrocarbons(part 2)	2
15	Preparation of aspirin	2
16	Alcohol	2
17	Phenols reactions	2
18	Carboxylic Acids reactions part 1	2
19	Carboxylic Acids reactions part 2	2
20	Aldehydes and ketones	2
21	Carbohydrates reactions	2
22	Monosaccharides reactions	2
23	Disaccharides reactions	2
24	Lipids reactions part 1	2
25	Lipids reactions part 2	2
26	Proteins reactions	1
27	Amino acids reactions	1
28	Paper chromatography part 1	1
29	Paper chromatography part 2	1
30	Osmosis	1
Total		

No.	Subject /practical	Time/Hr.
1	Introduction to biosafety and biosecurity Occupational safety and health Key components of bio-risk management	1
2	Universal safety precaution Components of biosafety in all labs	1
3	Biosafety barriers in labs Personal Protective Equipment (PPE) Facility design	1
4	Safety for support staff Laboratory Hygiene Engineering and building maintenance services	1
5	Overview of biological safety &security Equipment	1

University of Maysan / College of Dentistry	1. Educational Institution
Branch of Basic Medical Sciences	2. Academic Department/Center
Physics	3. Course Name
Weekly	4. Available Attendance Forms
	5. Semester/Year
Two semesters / First stage	6. Number of Study Hours (Total)
2024-2023	7. Date of Preparation of this Description

8. Course Objectives

Enabling the student to know the physical ideas related to the human body from two aspects, which are the physical functions of the human body organs and the medical applications in diagnosis and treatment, description and application, theoretical and practical mastery of the curriculum components

9. Learning outcomes and teaching, learning and evaluation methods

A- Cognitive objectives

A1- The relationship of physics to humans

A2- Physical effects within the human body

A3- Physical applications on the human body, diagnosis and treatment

A4- Improving the performance of the human body by physical means

A5- The relationship of all this information to human health

B- Course specific skill objectives B1- Lectures and discussion to consolidate ideas B2- Experiments, laboratories and preparing reports B3- B4- Teaching and learning methods

Data show

Evaluation methods

Semester exams, students' attendance and attendance, student activity inside the hall and their interaction with the lecture

C- Emotional and value objectives

C1- Questions Oral as a basis for discussion C2-Experiments
C3-Laboratory reports
C4-Homework

Teaching and learning methods

All learning methods used such as lectures, assignments, reports and discussion groups

Evaluation methods
Practical and theoretical exams, attendance and discipline within the lecture

D-General and transferable skills (other skills related to employability and personal development.) D1-Theoretical and practical preparation to perform the required tasks D2- D3- D4-

Course structure .10					
Evaluation method	method Teaching	Unit name/topic	Required learning outcomes	week	hour
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Terminology Terms: Medical Physics, physical medicine, Physical therapy, Health .Physics, Radiological Physics, clinical physics Modeling, Accuracy, Precision, False Positive, False Negative	2	1
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Terminology Terms: Medical Physics, physical medicine, Physical therapy, Health .Physics, Radiological Physics, clinical physics Modeling, Accuracy, Precision, False Positive, False Negative	2	2
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Force on &in body: Static forces :(type of levers with medical .examples) Dynamic forces (Centrifuge)	2	3
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Force on &in body: Static forces :(type of levers with medical .examples) Dynamic forces (Centrifuge)	2	4
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Physics of the skeleton: Bones:(Function of bones, Composition of ,bone, bone remodeling (compact and trabecular bone Stress-strain curve :(compressive and tensile .stress, young modulus) Bone joints :(Synovial fluid, coefficient of a joint).	2	5
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Physics of the skeleton: Bones:(Function of bones, Composition of ,bone, bone remodeling (compact and trabecular bone Stress-strain curve :(compressive and tensile .stress, young modulus) Bone joints :(Synovial fluid, coefficient of a joint).	2	6
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Heat and cold in medicine: Physical basis of heat and temperature, ,Temperature scales Converting Temperatures, Temperature in Dentistry, Thermal expansion, (Linear, Area, Volume Thermal ,Expansion) Thermometry, Heat therapy, Thermography, Cold in medicine and cryosurgery. Thermal conductivity	2	7
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Heat and cold in medicine: Physical basis of heat and temperature, ,Temperature scales Converting Temperatures, Temperature in Dentistry, Thermal expansion, (Linear, Area, Volume Thermal ,Expansion) Thermometry, Heat therapy, Thermography,	2	8

			Cold in medicine and cryosurgery. Thermal conductivity		
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Energy, work and power of the body: First law of thermodynamic. Energy change in the body (Met, Basal .metabolic rate (BMR) Work and power. Efficiency heat losses from the body. Anaerobic phase and aerobic phase. Hypothalamus (body's thermostat).Heat lost by (radiation, convection, evaporation of sweat and respiration).	2	9
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Energy, work and power of the body: First law of thermodynamic. Energy change in the body (Met, Basal .metabolic rate (BMR) Work and power. Efficiency heat losses from the body. Anaerobic phase and aerobic phase. Hypothalamus (body's thermostat).Heat lost by (radiation, convection, evaporation of sweat and respiration).	2	10
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Pressure: Definition, absolute pressure, gauge pressure, negative pressure, unit of pressure. Measurement of pressure in the body (Manometer).Pressure inside the skull. Eye pressure. Pressure in the skeleton. Pressure in the urinary bladder.Boyle's law: (pressure while diving).HOT (hyperbaric oxygen therapy).	2	11
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Pressure: Definition, absolute pressure, gauge pressure, negative pressure, unit of pressure. Measurement of pressure in the body (Manometer).Pressure inside the skull. Eye pressure. Pressure in the skeleton. Pressure in the urinary bladder.Boyle's law: (pressure while diving).HOT (hyperbaric oxygen therapy).	2	12
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Electricity within the body: Electrical potential of nerves (resting potential, action potential in myelinated and unmyelinated nerves) Electromyogram (EMG). Electrical potential in the heart .(electrocardiogram ECG) Electroencephalogram (EEG)	2	13
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Electricity within the body: Electrical potential of nerves (resting potential, action potential in myelinated and unmyelinated nerves) Electromyogram (EMG). Electrical potential in the heart .(electrocardiogram ECG) Electroencephalogram (EEG)	2	14
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Sound in medicine: .Properties ofsound Stethoscope (including heart sound).mechanism of hearing	2	15
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Sound in medicine: .Properties ofsound Stethoscope (including heart sound).mechanism of hearing	2	16
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Ultrasound .(A-scan, B-scan, M-scan and Doppler effect) Physiological effect of ultrasound in therapy.	2	17
Short, semester, mid-year and final	Theoretical lecture using	Medical Physics	Ultrasound .(A-scan, B-scan, M-scan and Doppler effect)	2	18

exams	power point		Physiological effect of ultrasound in therapy.		
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Light in medicine: Light nature, Planck Equation, (Reflection, Refraction and Absorption of Light, Properties of light), Diffuse reflection, Specular reflection, Phototherapy, Application of ultraviolet and infrared light in medicine, Tanning and Skin Cancer.	2	19
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Light in medicine: Light nature, Planck Equation, (Reflection, Refraction and Absorption of Light, Properties of light), Diffuse reflection, Specular reflection, Phototherapy, Application of ultraviolet and infrared light in medicine, Tanning and Skin Cancer.	2	20
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Laser in medicine. What is laser? Application of laser in medicine Atomic Transitions, Population inversion, Laser Typical Characteristics, General Applications of Laser, Laser Dental Applications, Reshape gum tissue, Laser aided teeth whitening, Laser Drill	2	21
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Laser in medicine. What is laser? Application of laser in medicine Atomic Transitions, Population inversion, Laser Typical Characteristics, General Applications of Laser, Laser Dental Applications, Reshape gum tissue, Laser aided teeth whitening, Laser Drill	2	22
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Physics of eye and vision: .Focusing element of the eye (cornea, lens) Element of the eye (pupil, aqueous humor, ,vitreous humor sclera).Visual acuity, Snellen chart, optical density	2	23
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Physics of eye and vision: .Focusing element of the eye (cornea, lens) Element of the eye (pupil, aqueous humor, ,vitreous humor sclera).Visual acuity, Snellen chart, optical density	2	24
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Physics of diagnostic X-ray: Properties of X-ray, production of X-ray. ,Absorption of X-ray contrast media-ray image (penumbra, grid, and intensifying screens).Radiation to patients from X-ray (filters).	2	25
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Physics of diagnostic X-ray: Properties of X-ray, production of X-ray. ,Absorption of X-ray contrast media-ray image (penumbra, grid, and intensifying screens).Radiation to patients from X-ray (filters).	2	26
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Physics of nuclear medicine: Radioactivity decay, half-life, units. Basic instrumentation and its medical application (GM-tube, Photomultiplier tube, scintillation detector, solid state detector).Therapy with radioactivity. Radiation doses in nuclear medicine.	2	27
Short, semester, mid-year and final exams	Theoretical lecture using power point	Medical Physics	Physics of nuclear medicine: Radioactivity decay, half-life, units. Basic instrumentation and its medical application (GM-tube, Photomultiplier tube, scintillation detector, solid state detector).Therapy with radioactivity. Radiation	2	28

			doses in nuclear medicine.		
Short, semester, mid-year and final exams	محاضرة نظرية باستخدام برنامج power point	Medical Physics	Physics of radiation therapy: The dose units (Rad and Gray).Principles of radiation therapy. Brach therapy, quality factor (QF).	2	29
Short, semester, mid-year and final exams	محاضرة نظرية باستخدام برنامج power point	Medical Physics	Physics of radiation therapy: The dose units (Rad and Gray).Principles of radiation therapy. Brach therapy, quality factor (QF).	2	30

11. البنية التحتية	
Medical Physics (John Cameron) Physics of the human body(Irving Herman)	1- Required textbooks
Physics of human body	2- Main references (sources)
	A) Recommended books and references
John Cameron	(Scientific journals, reports.....)

12. Curriculum Development Plan
Developing the educational content by deleting, adding and replacing. - Using modern teaching methods that suit the level of learners from time to time. - Updating the means of assessment and measuring the level of students. - Encouraging e-learning. - Providing the student with the skills required by the profession of dentistry and the changes of the era.

Laboratory sessions

Lab number	Study unit title	Hours
1	Guidelines of Medical Physics Lab and Rules must be obeyed by the students	2
2	Graphing Techniques	2
3	:Ohm's law verify ohm's law - - to find the value of different values of resistance	2
4	:Ohm's law verify ohm's law - - to find the value of different values of resistance	2
5	:Semiconductors (junction diode) To determine the characteristics of the semiconductors Comparison between omic and non-omic resistance	2
6	:Semiconductors (junction diode) To determine the characteristics of the semiconductors Comparison between omic and non-omic resistance	2
7	Cathode Ray Oscilloscope .Measurement of deflection sensitivity of D. C. voltage- -Measurement of deflection sensitivity of A. C. voltage	2
8	Cathode Ray Oscilloscope .Measurement of deflection sensitivity of D. C. voltage- -Measurement of deflection sensitivity of A. C. voltage	2
9	:The focal length of convex lens ,Rough value of focal length of different convex lenses- ,A graphical method of measuring of focal length- Comparison between these methods and the given value.	2
10	:The focal length of convex lens ,Rough value of focal length of different convex lenses-	2

	,A graphical method of measuring of focal length- Comparison between these methods and the given value.	
11	:Hook's law To verify Hook's law and determine the force constant of- .the spring -To determine the work done by stretching the spring.	2
12	:Hook's law To verify Hook's law and determine the force constant of- .the spring -To determine the work done by stretching the spring.	2
13	:Focal length of concave mirror Locating the radius of curvature- -Determining the focal length	2
14	:Focal length of concave mirror Locating the radius of curvature- -Determining the focal length	2
15	General review and 1st course exam	2
16	:Laser applications To measure the width of a single slit by using a laser- To measure the wavelength of laser by using a certain- single slit	2
17	:Laser applications To measure the width of a single slit by using a laser- To measure the wavelength of laser by using a certain- single slit	2
18	:Boyle's law To verify Boyle's law- -To measure the pressure of the atmosphere	2
19	:Boyle's law To verify Boyle's law- -To measure the pressure of the atmosphere	2
20	:Inverse Square law To verify the inverse square law - Radiation shielding by different thicknesses of of a certain - Material	2
21	:Inverse Square law To verify the inverse square law - Radiation shielding by different thicknesses of of a certain - Material	2
22	Viscosity of a liquid To determine the viscosity of a medium using a small - .sphere falls with a constant terminal velocity - To verify Stokes' law	2
23	Viscosity of a liquid To determine the viscosity of a medium using a small - .sphere falls with a constant terminal velocity - To verify Stokes' law	2
24	Velocity of the sound To measure the velocity of the sound by using a resonance - .tube, closed at one end, at room temperature Calculated the theoretical and practical values of the - velocity of sound and comparing between them	2
25	Velocity of the sound To measure the velocity of the sound by using a resonance - .tube, closed at one end, at room temperature Calculated the theoretical and practical values of the - velocity of sound and comparing between them	2
26	The focal length of a converging lens To determine the focal length of a converging lens by lens - .displacement method using conjugate foci - To calculate curvature value of this converging lens	2
27	The focal length of a converging lens To determine the focal length of a converging lens by lens - .displacement method using conjugate foci - To calculate curvature value of this converging lens	2
28	Simple Pendulum	2

	To determine the periodic time and its variation with the- length of the pendulum -To calculate the acceleration of free fall	
29	Simple Pendulum To determine the periodic time and its variation with the- length of the pendulum -To calculate the acceleration of free fall	2
30	General review and 2nd course exam	2
Total		60

University of Maysan / College of Dentistry	1. Educational institution
Branch of Basic Medical Sciences	2. Academic department/center
Biology	3. Course name
Weekly	4. Available forms of attendance
Two semesters / First stage	5. Semester/year
60 theoretical hours and 60 practical hours	6. Number of study hours (total)
2023-2024	7. Date this description was prepared

8. Course objectives
Introduction to life sciences and understanding its various branches such as parasitology, cytology, histology and genetics
9. . Learning outcomes and teaching, learning and assessment methods
A- Cognitive objectives
A1- Teaching the student the relationship of life sciences to humans A2- Understanding the impact of life sciences on the health of the body
A3- The relationship of parasitology and cytology to human diseases A4- The relationship of genetics to human health A5- The relationship of histology to humans A6- The relationship of cytology to blood -
B- Course specific skill objectives
B1- According to the teaching method used, such as lecture discussion, interrogation..
B2- Using laboratories and practical experiments to increase the student's understanding and see it practically A B3- The method of surprise exams and quizzes
Teaching and learning methods

Course structure .10					
Evaluation method	method Teaching	Unit name/topic	Required learning outcomes	week	hour
Short, Term, Mid-Year and	Theoretical lecture using power point	biology	Introduction to medical and oral Biology	2	1

Final Exams					
Short, Term, Mid-Year and Final Exams	The ... point	biology	Prokaryotes and Eukaryotes	2	2
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	General and oral immunity	2	3
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Bacteria and oral disease	2	4
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Genetics and its role in oral disease	2	5
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Simple epithelial tissue (Tongue)	2	6
Short, Term, Mid-Year and Final Exams	The ... point	biology	Stratified epithelial tissue	2	7
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Glandular epithelial tissue (Salivary gland)	2	8
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	General connective tissue (blood)	2	9
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Muscular tissue	2	10
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Nerve tissue	2	11
Short, Term, Mid-Year and Final Exams	The ... point	biology	Cell structure (Oral mucus membrane)	2	12
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Plasma membrane structure	2	13
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Passage of materials across cell membrane	2	14
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Cell cycle	2	15
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Mitosis and meiosis	2	16
Short, Term, Mid-Year and Final Exams	The ... point	biology	Cell energy	2	17

Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Nucleic acid , DNA and RNA	2	18
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Introduction to parasitology	2	19
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Types of parasites and host	2	20
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	General and oral protozoa	2	21
Short, Term, Mid-Year and Final Exams	The ... point	biology	Human amoebas,E. histolytica, E.coli, E.gingivalis	2	22
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Flagellates, Giardia lamblia, Trichomonas tenax, T.hominas, T.vaginalis	2	23
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Leishmania , cutaneous and vesiral	2	24
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	biology	Sporozoa, Plasmodium spp.	2	25
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Biology	Toxoplasma gondii	1	26
Short, Term, Mid-Year and Final Exams	The ... point	Biology	Nemathelminthes, Ascaris lumbricoides	1	27
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Biology	Ancylostoma duodenale, Entrobius vermicularis	1	28
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Biology	Platyhelminthes, Fasciola hepatica	1	29
Short, Term, Mid-Year and Final Exams	Theoretical lecture using power point	Biology	Schistosoma spp	1	30

Laboratory sessions

Lab number	Study unit title	Hours
1	Laboratory safety	2
2	Parts of microscope	2
3	Types of cells	2
4	Simple epithelial tissue	2
5	Stratified epithelia tissue	2
6	Glandular epithelial tissue	2
7	Serous, Mucous, Sero-mucous cell glands	2
8	Proper connective tissue, Loose	2
9	Proper connective tissue, dense	2
10	Special connective tissue, type of cells	2
11	Cartilage, Hyaline, Elastic, Fibro	2

12	Compact and spongy bone	2
13	Human Blood, W.B.C , R.B.C and frog blood	2
14	Muscular tissue: Skeletal, cardiac and smooth muscles	2
15	Nerve cell	2
16	Central and peripheral nerve system	2
17	Spinal cord and meninges	2
18	Entamoeba histolytica , Entamoeba coli	2
19	Giardia lamblia , Trichomonas vaginalis, Trichomonan tenax	2
20	Leishmania tropica,Leshmania donovani	2
21	Trypanosoma gambiense,T.rhodesiense	2
22	Plasmodium vivax, Toxoplasma gondii	2
23	Balantidium coli	2
24	Echinococcus granulosus,Taenia saginata Taenia solium	2
25	Ancylostoma, Ascaris , Entrobius	1
26	Schistosoma spp, Fasciola hepatica	1
27	Endoskeleton of frog	1
28	Experiment...examine samples of water	1
29	Experiment...examine samples of water (one hour), Experiment ...Blood groups(one hour)	1
30	Experiment ...Blood groups	1
Total		60

11. Infrastructure	
Human biology 8th edition	1- Required textbooks
Cell biology , 3 edition.2017	2- Main references (sources)
Inderbir singh	

12. Curriculum Development Plan

- Developing the curriculum content by deleting, adding and replacing.

Laboratory sessions

Lab number	Study unit title	Hours
1	Laboratory safety	2
2	Parts of microscope	2
3	Types of cells	2
4	Simple epithelial tissue	2
5	Stratified epithelia tissue	2
6	Glandular epithelial tissue	2
7	Serous, Mucous, Sero-mucous cell glands	
8	Proper connective tissue, Loose	2
9	Proper connective tissue, dense	2
10	Special connective tissue, type of cells	2
11	Cartilage, Hyaline, Elastic, Fibro	2
12	Compact and spongy bone	2
13	Human Blood, W.B.C , R.B.C and frog blood	2
14	Muscular tissue: Skeletal, cardiac and smooth muscles	2
15	Nerve cell	2
16	Central and peripheral nerve system	2
17	Spinal cord and meninges	2
18	Entamoeba histolytica , Entamoeba coli	2
19	Giardia lamblia , Trichomonas vaginalisTrichomonan tenax	2
20	Leishmania tropica,Leshmania donovani	2

21	Trypanosoma gambiense,T.rhodesiense	2
22	Plasmodium vivax, Toxoplasma gondii	2
23	Balantidium coli	2
24	Echinococcus granulosus,Taenia saginataTaenia solium	2
25	Ancylostoma, Ascaris , Entrobius	2
26	Schistosoma spp, Fasciola hepatica	2
27	Endoskeleton of frog	2
28	Experiment...examine samples of water	2
29	Experiment...examine samples of water (one hour),	2
30	Experiment ...Blood groups	2
Total		60

University of Maysan / College of Dentistry	1. Educational institution
	2. Academic department/center
Basic Sciences Branch	3. Course name
	4. Available forms of attendance
English Language	5. Semester/year
Weekly	6. Number of study hours (total)
Two Semesters / First Stage	7. Date this description was prepared

8. Course objectives: Preparing the student to a high level of proficiency in the English language, which helps him in studying dentistry and textbooks.
9. Learning outcomes, teaching and learning methods, and evaluation
A- Cognitive objectives
A1- Listening and speaking with a correct accent
A2- Reading in a highly professional manner
A3- Writing in English
Midterm, semester, final and quizzes.
C- Emotional and value-based objectives
C1- Solving health preservation problems
C2- C3- C4-

Course structure-10		
No	Study unit title	Hours
1	Prefixes & suffixes (part 1)	1
2	Integumentary system	1
3	Muscular system	1
4	Respiratory system	1

5	Digestive system	1
6	Nervoussystem	1
7	Cardiovascular system	1
8	Blood and Lymph	1
9	Immune system	1
10	Endocrine system	1
11	Five sense	1
12	Genitourinary system	1
13	)Dental terminology (part I	1
14	) Dental terminology (part II	1
15	) Dental terminology (part III	1
16	Small Talk	1
17	Common Mistakes	1
18	Passive voice	1
19	Direct and indirect speech	1
20	Synonyms in English	1
21	Adjectives	1
22	Integrating a quotation into an essay	1
23	Prepositions in English Grammar with Examples	1
24	Idioms and Phrases	1
25	Writing assignment	1
26	Pronunciation rules	1
27	Tenses	1
28	Synonyms and Antonyms	1
29	Paraphrasing	1
30	Essay writing skills	1
Total		30

11. Infrastructure	
Headway-English Course	
John and Liz soars	1. Required textbooks
Reports published on the college website Reports published on the college website	2. Main references (sources)
College website	College website

12. Curriculum Development Plan
- Developing the curriculum content by deleting, adding and replacing.

Higher Education - Faculty of Dentistry	. Educational Institution
Faculty of Dentistry	2. Academic Department/Center
Dental Anatomy	3. Course Name/Code
Weekly	4. Available Attendance Forms
Annual / First Stage	5. Semester/Year
60 Theoretical Hours and 60 Practical Hours	6. Number of Study Hours (Total)
2023-2024	7. Date of Preparation of this

	Description
8. Course Objectives: To provide students with an integrated practical program by training them to sculpt teeth on wax molds.	

9. Learning outcomes, teaching and learning methods and assessment
A- Cognitive objectives
A1- Formulating and programming information in a way that enables the student to absorb it and increase knowledge regarding the theoretical and practical aspects
A2- Introducing students to the anatomical model of teeth
Data show, lecture, LCD, educational movies,
Evaluation Methods
Theoretical and practical (clinical) exams and quick exams
C- Emotional and value objectives C1- Problem solving
C2- Capable of leadership
Teaching and learning methods

: Course structure - 10

Evaluation method	Teaching method	Unit name/topic	**Theoretical content**	week	hour
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Introduction**	**2**	**1**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Introduction**	**2**	**2**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Numbering Systems**	**2**	**3**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Numbering Systems**	**2**	**4**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Anatomical Landmarks**	**2**	**5**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Anatomical Landmarks**	**2**	**6**

Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Maxillary Central Incisor**	**2**	**7**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Maxillary Central Incisor**	**2**	**8**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Maxillary Lateral Incisor**	**2**	**9**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Maxillary Lateral Incisor**	**2**	**10**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Mandibular Incisors**	**2**	11
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Mandibular Incisors**	**2**	**12**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Mandibular Incisors**	**2**	**13**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Canines**	**2**	**14**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Canines**	**2**	**15**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Maxillary Premolars**	**2**	**16**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Maxillary Premolars**	**2**	**17**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Mandibular First Premolars**	**2**	**18**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Mandibular First Premolars**	**2**	**19**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Mandibular Second Premolar**	**2**	**20**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Maxillary First Molar** **Permanent maxillary second and third molars**	**2**	**21**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Maxillary First Molar** **Permanent maxillary second and third molars**	**2**	**22**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Permanent Mandibular First Molar**	**2**	**23**
Short, semester,	Theoretical	Dental anatomy	**Permanent Mandibular Second and third Molars**	**2**	**24**

mid-year and final exams	lecture using power point				
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Tooth Development**	**2**	**25**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Tooth Development**	**2**	**26**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Pulp Cavities**	**2**	**27**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Pulp Cavities**	**2**	**28**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Occlusion and physiologic form of teeth and periodontium**	**2**	**29**
Short, semester, mid-year and final exams	Theoretical lecture using power point	Dental anatomy	**Occlusion and physiologic form of teeth and periodontium**	**2**	**30**

	11. Infrastructure
1- Woelfel's Dental Anatomy It's Relevance to Dentistry. 2- Wheeler's Atlas of Tooth Form	2- Main references (sources)
	(a) Books and references recommended by scientific journals, reports.....,
College website	

12. Curriculum Development Plan
- Developing the curriculum content by deleting, adding and replacing.

Laboratory sessions

Lab number	Study unit title
1	Introduction to Dental Anatomy & Carving Instr
2	Numbering systems.
3	Practical demonstration of Carving a Cube (1cm*1cm*1cm)
4	-Introduction to Anatomical landmarks on Teeth -Carving of a cube.
5	Description &Carving of the Labial Aspect of P. Right Central Incisor.
6	Description &Carving of the Mesial aspect of P. Right Central Incisor.
7	Description ,Carving & Finishing of the Incisal A Permanent Max. Right Central Incisor.
8	Practical Training of Carving of P. Max. Right Incisor
9	Practical Exam. Of Carving of P. Max. Right C Incisor
10	Description &Carving of the Labial & Mesial A Max. Right Canine.
11	Description ,Carving & Finishing of the Incisal Max. Right Canine.

Second stage

University of Maysan / College of Dentistry	1. Educational institution
Branch of Basic Medical Sciences	2. Academic department/center
Oral and Embryological Tissues	3. Course name

Weekly	4. Available forms of attendance
Two semesters / Second stage	5. Semester/year
30 theoretical hours 60 practical hours	6. Number of study hours (total)
2023-2024	7. Date this description was prepared

Course objectives: To familiarize the student with the stages of fetal formation and development and to know the congenital malformations that 8 accompany this development.

. Learning outcomes and teaching, learning and evaluation methods
A- Cognitive objectives A1- Stages of embryonic development
A2- Deformities that occur during fetal development N A3- Modern methods for diagnosing deformities T
B- Course specific skill objectives
B1- Ability to dissect laboratory animals (and extract embryos from them) B2- Make slides with slides specific to the embryo
Teaching and learning methods
Data show Seminar
Dissection by the instructor and students Involving students in discussing the seminar
Evaluation methods
Daily and semester exams Mid-year and end-of-year exams Evaluation of the seminar T

Course structure .10

Evaluation method	method Teaching	Unit name/topic	Required learning outcomes	week	hour
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Embryogenesis: first week, ovulation, fertilization and implantation	embryology	2	1
Daily and semester exams, mid-year and end-of-year exams,	Data show slides	2nd week,Bilaminar germ layer	embryology	2	2

seminars					
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	3rd week trilaminar germ layer: gastrulation and neurulation	embryology	2	3
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	(Development of head and neck(pharyngeal arch,pouch & cleft	embryology	2	4
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides/ experimental work	Development of face and anomalies	embryology	2	5
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Development of tongue and anomalies	embryology	2	6
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Development of palate and anomalies	embryology	2	7
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Slide preparation	Oral tissue	2	8
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Tooth development and developmental disturbances of teeth	Oral tissue	2	9
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Dentinogenesis and dentin structure	Oral tissue	2	10
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Amelogenesis, Enamelstructures	Oral tissue	2	11
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Clinical consideration for dentin and enamel	Oral tissue	2	12
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides and microscopic slides	Dental Pulp	Oral tissue	2	13
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides and microscopic slides	Cementum and clinical consideration	Oral tissue	2	14
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Root formation& Cementogenesis	Oral tissue	2	15
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Periodontal ligaments	Oral tissue	2	16

Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Principles fiber of pdl and gingival fibers	Oral tissue	2	17
Daily and semester exams, mid-year and end-of-year exams, seminars	Seminar discussion	Alveolar bone	Oral tissue	2	18
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Bone formation and resorption	Oral tissue	2	19
Daily and semester exams, mid-year and end-of-year exams, seminars	Seminar discussion	Proteins involve in mineralization of bone and dentin	Oral tissue	2	20
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Oral mucosa and their types	Oral tissue	2	21
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Gingiva and dentogingival junction	Oral tissue	2	22
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Eruption of teeth	Oral tissue	2	23
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Shedding of teeth	Oral tissue	2	24
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Salivary gland	Oral tissue	2	25
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Salivary proteins	Oral tissue	2	26
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	TMJ	Oral tissue	2	27
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Maxillary sinus	Oral tissue	2	28
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Histochemistry	Oral tissue	2	29
Daily and semester exams, mid-year and end-of-year exams, seminars	Data show slides	Age changes of soft and hard tissues	Oral tissue	2	30

11. Infrastructure
1- Required textbooks
1. Ten cate oral histology development, structure and function . 9th edition. 2017, Elsevier.
2- Main references (sources)
2. Orban oral histology and embryology . Kumar. 14th edition .
A) Recommended books and references (scientific journals, reports....., (

12. Curriculum Development Plan
- Developing the curriculum content by deleting, adding and replacing.

Laboratory sessions

Lab number	Study unit title		Hours
1	first week of development ovulation and implantation	data show projector	3
2	Second week of development: bilaminar germ layer	data show projector	3
3	Third week of development trilaminar germ layer	Video presentation	3
4	Development of prechodral plate and primitive streak	data show projector	3
5	Pharyngeal arch, pouch and cleft	data show projector	3
6	development of the face and tongue	Video presentation	3
7	Development of the Palate and its anomalies	Video presentation	3
8	Slide preparation, Tooth development and growth	Data show figures	3
9	Tooth development and growth	Microscopic slides and data show	3
10	Dentinogenesis, Dentin structures	Microscopic slides and data show	3
11	structures Amelogenesis, Enamel	Microscopic slides and data show	3
12	Clinical consideration in enamel and dentin, Dentin hypersensitivity	Data show figures	3
13	Pulp development, pulp structures	Video presentation	3
14	Root formation, Cementogenesis	Video presentation	3
15	Cementum structures, Clinical consedaration of cementum	Data show projection	3
16	Periodontium, Periodontal ligaments	Microscopic slides and data show	3
17	Maxilla, mandible , alveolar bone	Microscopic slides and data show	3
18	Oral mucosa membrane, Types of mucosa	Data show figures	3
19	Eruption of teeth, Mechanism of eruption	Video and Data show figures	3
20	Shedding of the deciduous teeth, Dentino-gingival junction	Data show figures	3
21	Tempro-mandibular joints, Maxillary sinus	Data show figures	3
22	Histochemistry, Types of histochemical stain	Data show figures	3
23	Facial anomalies ,Types of Twins	Data show figures	3
24	Development of Digestive system, Congenital anomalies of Digestive system	Data show figures	3
25	Development of nervous system, Congenital anomalies of nervous system	Data show figures	3
26	Development of muscular system,Congenital anomalies of muscular system	Data show figures	3
27	Development ofskeletal system, Congenital anomalies of skeletal system	Data show figures	3
28	Characterization of proteins involved in Dentin and Bone Mineralization	Data show figures	3
29	Bone formation and resorption	Data show figures	3
30	Salivary proteins and their relevance to mineral homeostasis	Video and Data show figures	3
Total			90

University of Maysan / College of Dentistry	1. Educational Institution
Basic Medical Sciences	2. Academic Department/Center

Biochemistry	3. Course Name
Weekly	4. Available Attendance Forms
Two semesters /Second stage	5. Semester/Year
60 theoretical hours and 60 practical hours	6. Number of Study Hours (Total)
2024-2023	7. Date of Preparation of this Description

8. Course Objectives
Introduction to biochemistry, understanding its functions, the variables that occur in it, the irregularity in its levels, its life and pathological implications, and methods of measuring its levels
9. Learning outcomes, teaching and learning methods, and evaluation
A- Cognitive objectives
A1- Teaching the student the relationship of general and inorganic chemistry to humans
A2- Understanding the variables that occur when the concentrations of materials change on the health of the body
The teaching method changes according to the student's awareness and interaction with the lecture. It may be the discussion method, the interrogation method, or the inference and deduction method... It may be all methods at the same time, in addition to using laboratories and practical experiments to increase the student's understanding and awareness...
Evaluation methods
Monthly exams... and quizzes... and student attendance... in addition to his interaction with the material and his activity during the lecture
C- Emotional and value objectives C1- Interrogation B
C2- Discussion
C3- Laboratory experiments and reports C4- Induction

Course structure .10					
Evaluation method	method Teaching	Unit name/topic	Required learning outcomes	week	hour
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Enzymes: Definition ,Terminology , and Classification	2	1
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Mechanism of enzyme action	2	2
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Clinical significance of enzyme assays	2	3
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Vitamins, definition, classification	2	4
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Digestion and absorption of carbohydrates, lipids ,and proteins	2	5
For short,	Theoretical	Biochemistry	Chemistry of carbohydrates	2	6

semester, mid-term and final exams.	lecture using power point				
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Metabolism of Carbohydrates: part 1	2	7
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Metabolism of Carbohydrates :part 2	2	8
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Carbohydrates metabolism regulation	2	9
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Chemistry of Proteins and amino acids	2	10
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Metabolism of Proteins and amino acids	2	11
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Metabolism of Protein and amino acid regulation	2	12
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Metabolism of Protein and amino acid inherited disorder	2	13
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Exam	2	14
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Lipid :definition, classification	2	15
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Metabolism of Lipid: oxidation of Fatty Acids	2	16
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Biosynthesis of Fatty Acids	2	17
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Integration of metabolism of carbohydrates, lipid ,and Proteins	2	18

For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Metabolism of Purines and pyrimidines	2	19
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Metabolism of Purines and pyrimidines disorder	2	20
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Nucleic Acids Definition and Protein synthesis	2	21
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Hormone definition, classification	2	22
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Hormone disorder	2	23
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Acid-base balance	2	24
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Trace elements disorder	2	25
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Salivary secretion(saliva), Pancreatic juice	2	26
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Electrolytes	2	27
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Liver Function Test	2	28
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Kidney Function Test	2	29
For short, semester, mid-term and final exams.	Theoretical lecture using power point	Biochemistry	Exam	2	30

11. البنية التحتية	
Lippincott'sIllustrated Reviews Biochemistry	1- Required textbooks
Richared Harvey and denise ferrier	2- Main references (sources)
	A) Recommended books and references (scientific journals, reports....., (B) Electronic references, Internet sites.....,
College website	1- Required textbooks

12. Curriculum Development Plan
- Developing the curriculum content by deleting, adding and replacing.

Laboratory sessions

Lab number	Study unit title	Hours
1	Lab safety	2
2	Sample collection(part1)	2
3	Sample collection (part2)	2
4	Spectrophotometer	2
5	Standard curve	2
6	Blood glucose+ HbA1c	2
7	Total Protein	2
8	Albumin+ Globulin	2
9	Troponin	2
10	Liver function test (Bilirubin)	2
11	Alkaline Phosphatase	2
12	Transaminases (ALT&AST)	2
13	Lipid in blood (cholesterol & lipoprotein)	2
14	Triglyceride	2
15	Kidney function Test (urea)	2
16	Serum creatinine &creatinine clearness	2
17	General Urine Analysis(part1)	2
18	General Urine Analysis(part2)	2
19	Uric acid	2
20	Amylase in serum+ saliva	2
21	creatine phosphokinase	2
22	lactate Dehydrogenase	2
23	serum calcium	2
24	serum phosphorus	2
25	serum Na	2
26	serum K	2
27	serum Iron	2
28	Vitamin D	2
29	Vitamin C	2
30	Acid phosphatase.	2
Total		60

1. Educational institution	1. Educational institution
2. Academic department/center	2. Academic department/center

3. Course name	3. Course name
4. Available forms of attendance	4. Available forms of attendance
5. Semester/year	5. Semester/year
6. Number of study hours (total)	6. Number of study hours (total)
2024-2023	7. Date this description was prepared

8. Course Objectives
To teach students the practical and theoretical applications of the various general body tissues and all body organs
9. Learning outcomes, teaching and learning methods and evaluation

University of Maysan / College of Dentistry	Educational institution
Basic Medical Sciences Branch	Scientific department/center .2
The crimes of the Baath regime in Iraq	Course name . 3
4. Available forms of attendance	4. Available forms of attendance
5. Semester/year	5. Semester/year
6. Number of study hours (total)	6. Number of study hours (total)
2024-2023	7. Date this description was prepared

A- Cognitive objectives
A1- Explain the structures of the various body tissues and organs
A2- Use and draw simple diagrams on the board
A3- Use data show to display different sections of the body tissues in several sections and directions
A4-A5-A6-
B- Course specific skill objectives
B1- Prepare tissue sections of different body sections
B2- Use light microscopes to examine and distinguish different body tissues and organs
Teaching and learning methods

	10Course structure	
الساعات	موضوع المحاضرة	العدد
1	the introduction Chapter One / Crimes of the Baath regime according to the Law of the Supreme Iraqi Criminal Court in 2005	1
1	The concept of crimes and their types	2
1	Definition of crime linguistically and idiomatically	3
1	**Crime is a term**	4
1	Crime departments	5
1	**The crimes of the Baath regime are documented in the Law of the Supreme Iraqi Criminal Court**	6
1	Types of international crimes	7
1	**Genocide**	8
1	**Crimes against humanity**	9
1	**War crimes**	10

1	Drying the marshes	27
	Razing palm groves, trees and crops	
1	Chapter Four/Mass Graves Crimes	28
1	The cemeteries of the genocide committed by the Baathist regime in Iraq	29
1	Chronological classification of genocide graves in Iraq for the period 1963-2003	30
30		Total

11Infrastructure

There are many sources that the program relies on, including but not limited to examples Soldier Abdul Malik, The Criminal Encyclopedia, Part Three, Arab Heritage Revival House, Beirut, 1990 AD.	1 Required prescribed books
Ayman Abdel Aziz Salama, - International Responsibility for Committing the Crime of Genocide, st edition, Dar Al-Ulum for 1 Publishing and Distribution, Cairo, ..2006	(Main references) Sources .2
Archives of the Iraqi Center for Documentation of Extremist Crimes at the Abbasid Holy Shrine	(Recommended books and أ references (Scientific journals, reports.....,)
Official website of the United Nations	B (Electronic references, Internet sites....,.

12. Course development plan - Developing academic content by deleting, adding, and replacing. - Using modern teaching methods that suit the level of learners from time to time. -Updating the means of evaluating and measuring students' level. -Encouraging e-learning. - Providing the student with the skills required by the dental profession and the changes of the times.
12. Course development plan - Developing academic content by deleting, adding, and replacing. - Using modern teaching methods that suit the level of learners from time to time. -Updating the means of evaluating and measuring students' level. -Encouraging e-learning. - Providing the student with the skills required by the dental profession and the changes of the times.

8. Course Objectives
To teach students the practical and theoretical applications of the various general body tissues and all body organs
9. Learning outcomes, teaching and learning methods and evaluation
A- Cognitive objectives
A1- Explain the structures of the various body tissues and organs
A2- Use and draw simple diagrams on the board
A3- Use data show to display different sections of the body tissues in several sections and directions
A4-A5-A6-
B- Course specific skill objectives
B1- Prepare tissue sections of different body sections
B2- Use light microscopes to examine and distinguish different body tissues and organs
Teaching and learning methods

Course structure .10					
Evaluation method	method Teaching	Unit name/topic	Required learning outcomes	week	hour
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Cells, Basic Tissue	2	1
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Epithelial Tissue	2	2
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Connective Tissue	2	3
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Respiratory System: conducting portion	2	4
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Respiratory System: respiratory portion	2	5
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Urinary System: kidney nephrons, collecting tubules and ducts	2	6

For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Urinary System: ureter, urinary bladder, and male and female urethra	2	7
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Integumentary System: Skin: epidermis, dermis	2	8
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Integumentary System: skin glands, hair, and nails	2	9
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Hemopoiesis: bone marrow	2	10
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Hemopoiesis: blood cells	2	11
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Circulatory System	2	12
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Circulatory System	2	13
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Lymphoid system	2	14
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Lymphoid System	2	15
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Nervous System	2	16
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Nervous system	2	17
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Endocrine system	2	18
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Endocrine system	2	19
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Endocrine system	2	20
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Digestive system	2	21
For short, semester, mid-term and final	Theoretical lecture using power point	General histology	Digestive system	2	22

exams.					
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Digestive system	2	23
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Digestive system	2	24
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Male Reproductive system	2	25
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Male Reproductive system	2	26
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Female Reproductive System	2	27
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Female Reproductive System	2	28
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Special Sense Organs: eye	2	29
For short, semester, mid-term and final exams.	Theoretical lecture using power point	General histology	Special Sense Organs: ear	2	30

11. Infrastructure
1. Required textbooks	Junqueira's Basic Histology TEXT & ATLAS
2. Main references (sources)	Anthony L. MESCHER
A) Recommended books and references	
(Scientific journals, reports.....,	College website

12. Curriculum Development Plan
- Developing the curriculum content by deleting, adding and replacing.

Laboratory sessions

Lab number	Study unit title	Hours
1	Slides of basic types of tissue	2
2	Slides of types of epithelial tissue	2
3	Slides of types of blood cells in blood smears	2
4	Slides of larynx, trachea	2
5	Slides of lungs including bronchi and bronchioles	2
6	Slides of kidney	2

7	Slides of ureter, urinary bladder	2
8	Slides of layers of epidermis, dermis	2
9	Slides of skin glands, hair	2
10	Slides of bone marrow types	2
11	Slides of blood cells development	2
12	Slides of large (aorta) , small artery	2
13	Slides of medium sized vein	2
14	Slides of lymph nodes , palatine tonsils	2
15	Slides of thymus & spleen	2
16	Slides of , nerve fibers, spinal cord	2
17	Slides of spinal ganglia ,cerebrum , cerebellum	2
18	Slides of pituitary, thyroid glands	2
19	Slides of parathyroid, adrenal glands	2
20	Slides of pineal gland, endocrine pancreas	2
21	Slides of lip, tongue, and salivary glands	2
22	Slides of esophagus , stomach	2
23	Slides of duodenum, ileum, colon	2
24	Slides of appendix , liver ,pancreas, gall bladder	2
25	Slides of testis duct of the epididymis.	2
26	Slides of prostate gland,seminal vesicle,penis	2
27	Slides of ovary, corpus luteum, uterus	2
28	Slides of placenta, vagina, mammary gland	2
29	Slides of vertical section of cornea ,retina	2
30	Slides of vertical section of inner ear	2
Total		60

University of Maysan / College of Dentistry	1. Educational institution
Branch of Basic Medical Sciences	2. Academic department/center
Physiology	3. Course name
Weekly	4. Available forms of attendance
Two semesters / Second stage	5. Semester/year
60 hours of theory and 60 hours of practice	6. Number of study hours (total)
2024-2023	7. Date this description was prepared

8. Course Objectives
Introduction to physiology and teaching the student how to perform the functions of the different body organs
9. Learning outcomes and teaching, learning and evaluation methods
A- Cognitive objectives
A1- Teaching the student the functions of the body organs
A2- Studying diseases that affect the different body organs A3- A4- A5- A6-
B- Course specific skill objectives B1- The student's knowledge of the functions of the body organs B2- B3- B4-
Teaching and learning methods
Educational aids
Evaluation methods

Exams T
C- Emotional and value objectives C1- Problem solving
C2- Leadership ability E C3-

Course structure .10					
Evaluation method م	Teaching method	Unit name/topic\	Required learning outcomes	hour	week
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Introduction (Function organization of the human body, Cell physiology, Cell membrane , Cell components , Cell Junction)	2	1
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Body fluid (Type of body fluids, Intracellular and extracellular, Daily intake of water, Daily loss of body water, Constituents of extracellular and intracellular fluids, Major factors contribute to the movement of fluid, Specialized Fluids of the Body) Edema (Types of Edema, Causes of edema, Measurement of body fluid volume, Dehydration, Types of dehydration, Classification, Causes, Signs and Symptoms of Dehydrations)	2	2
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Homeostasis and Transport across cell membrane (Diffusion (passive), Carrier-mediated transport (passive or active), Vesicular transport).	2	3
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	ORAL CAVITY and Salivary Glands (Functions of Mouth, Salivary Glands (Structure, Development, 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)	2	4
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Salivary functions and Regulation of Salivary Secretion (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)	2	5
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	BLOOD (Composition of blood , Hematocrit, Plasma , Functions of blood), Red blood cells (Genesis of R.B.C, polycythemia, Anemia, Destruction of R.B.C.s)	2	6
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	White Blood Cells (Types of W.B.C. , Genesis of the leukocytes, Life span of the W.B.C, Phagocytosis, Inflammation, Leukemia's, Leukopenia)	2	7
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Hemoglobin (Formation of Hemoglobin , Iron Metabolism , Hb Compounds , Destruction of Hb , The common causes of jaundice)	2	8
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Blood groups (Agglutination, Agglutinins, The Rh Group, Formation of Anti-Rh, agglutinins, Erythrobastosis Fetalis , Effect of the Mother's Antibodies on the Fetus, Transfusion Reactions resulting from mismatched Blood Types , Nature of Antibodies)	2	9
Short, semester, mid-term and final	Theoretical lecture using power point	Physiology	Hemostasis and blood coagulation (Vascular Spasm , Formation of a	2	10

exams			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)		
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Cardiovascular system: Blood vessels (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)	2	11
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Cardiovascular system: Blood pressure (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)	2	12
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Cardiovascular system (Electrocardiogram, Hemorrhage, Circulatory Shock and Heart Failure, Cardiovascular Adjustments during Exercise)	2	13
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Respiratory system (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)	2	14
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Respiratory system: Lung volumes and capacities (Compliance, Variation in Compliance, The resistance and the work of breathing, Dead space, Lung volume and Lung capacity, Ventilation, Respiratory Protective Reflexes , Pulmonary function tests, Regulation of Respiration, The relationship between oral health and respiratory disease)	2	15
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Half-year Break	2	16
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	SPECIAL SENSATION: 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)	2	17
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Temperature of the Body (Normal body Temperatures, Physiological Variations of body temperature, Heat Balance, Heat 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)	2	18
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Urinary system (Parts of Renal system, The Kidney, Functions of kidneys, Components of kidney, Parenchyma of kidney, Nephron and Juxtaglomerular Apparatus, Renal corpuscle, Structure of renal corpuscle, Tubular portion of	2	19

			nephron, Collecting duct)		
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Urinary system: Urine formation (Mechanism of urine formation, Glomerular Filtration, Pressure determining filtration, Tubular Reabsorption, Tubular secretion	2	20
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Endocrine System (Introduction, Endocrine glands, Hormones, Nature of Hormones, Classification of hormones, Hormone Secretors, Hormonal action Hormone receptors, Synthesis and storage of hormones, Mechanism of hormonal function, Measurement of Hormone Concentrations in the Blood)	2	21
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Major Endocrine Glands (Oral manifestations of endocrine dysfunction, Control Systems Involving Hypothalamus and Pituitary glands, The pituitary gland, Thyroid gland, Pancreas gland, Adrenal glands)	2	22
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Digestive system (The Functions of the digestive, Structural layers of digestive, Stomach, Secretions of the Stomach , Regulation of Stomach Secretion , Mixing of Stomach Contents, Stomach Emptying	2	23
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Digestive system (small intestine , Secretions of the Small Intestine, Movement in the Small Intestine, Liver, Functions of the Liver, Pancreatic Secretions, Regulation of Pancreatic Secretion, Large Intestine, Movment in the Large Intestine Digestion, Absorption, and Transport)	2	24
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Muscular system: Muscle structure (Types, Structure, Microscopic Structure, Muscle Physiology, Properties, Contraction and contractile elements, Tone, Electrical and Molecular Changes during Muscular Contraction)	2	25
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Muscular system: Tone , contraction (Molecular Changes During Muscular Contraction, Neuromuscular Junction- Neuromuscular Transmission and Blockers, Nutrition and Metabolism (Energy Requirements))	2	26
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Nervous System: Nerve impulse, synapses (Nervous System Division, Cranial nerves , Neuron and Neuroglia, Receptors, Nerve impulse, Synapse and Neurotransmitters)	2	27
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Nervous System (Reflex Activ ity, Somatosensory System and Somatomotor System, Physiology of Pain)	2	28
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Reproductive system: Aging & reproductive system (Male Reproductive System Female Reproductive System, Meiosis, Aging and Reproductive system.	2	29
Short, semester, mid-term and final exams	Theoretical lecture using power point	Physiology	Aviation and Deep physiology (BodyResponse in high altitudes, physiological Changes in the Sea deep). Nutrition and metabolism (daily energy requirement, obesity and fitness)	2	30

البنية التحتية .11	
1.Guyton and Hall medical physiology 12th edition 2.Essentials of physiology for dental students	1- Required textbooks

Hall and C.john E K Sembulingam and prema Sembulingam	
	2- Main references (sources)
	A) Recommended books and references (scientific journals, reports.....,

12. Curriculum Development Plan

- Developing the curriculum content by deleting, adding and replacing.
- Using modern teaching methods that suit the level of learners from time to time.
- Updating assessment methods and measuring students' level.
- Encouraging e-learning.
- Providing the student with the skills required by the dentistry profession and the changes of the era.

Laboratory sessions

Lab number	Study unit title	Hours
1	Microscope	2
2	Collection of Blood Samples	2
3	Blood Smears	2
4	Functions of Saliva & Taste Sensation	2
5	Stimulation and collection ofsalivary secretion	2
6	Separation of blood samples	2
7	Differential WBCs	2
8	Total Count of WBCs	2
9	Total Count of RBCs	2
10	Blood groups	2
11	Estimation of Hemoglobin	2
12	Bleeding and clotting time	2
13	Self-Monitoring of blood glucose test	2
14	Measurement of blood pressure &pulse rate	2
15	Effect of exercise on blood pressure and respiratory rate	2
16	Mid Exam	2
17	Physiology of vision test	2
18	Physiology of hearing test	2
19	Physiology of Smell sensation	2
20	Measurement of body temperature	2
21	Thyroid function (Body mass index)	2
22	Thyroid function (Body mass index)	2
23	Resuscitation &Artificial respiration	2
24	Resuscitation &Artificial respiration	2
25	Physiology of Skeletal muscles	2
26	Physiology of Skeletal muscles	2
27	Physiology of Skeletal muscles	2

28	**Examination of reflexes (Motor Function)**	**2**
29	**Seminars and examinations**	**2**
30	**Seminars and examinations**	**2**
Total		**60**

Higher Education - Faculty of Dentistry 1. Educational Institution	Higher Education - Faculty of Dentistry 1. Educational Institution
Orthodontics Department 2. Scientific Department / Center	Orthodontics Department 2. Scientific Department / Center
Higher Education - Faculty of Dentistry 1. Educational Institution	Higher Education - Faculty of Dentistry 1. Educational Institution
Dental Material	3. Course name/code 4. Available forms of attendance 5. Semester/year 6. Number of study hours (total) 7. Date this description was prepared
Weekly	4. Available forms of attendance
Phase Two	5. Semester/year
30 ساعة نظري/ *60* ساعة عملي	6. Number of study hours (total)
2023-2024	7. Date this description was prepared
	8. Course Objectives
Learn the physical, chemical and mechanical properties of materials used in dentistry and learn the skills necessary for proper handling and adaptation of these materials	
	9. Learning Outcomes, Teaching, Learning and Evaluation Methods

Data show, lecture, LCD, live explanation and dealing with all types of materials mentioned in the curriculum prescribed for students after dividing them into groups according to the number of days of the week

Evaluation methods

Weekly, monthly, semi-annual and annual exams

C-Emotional and value objectives

C1- Problem solving

C2- Able to deal with dental materials in various conditions from changing temperature or changing the proportions of mixing those materials to reach the best results

C3-

Teaching and learning methods

Theoretical and practical lectures (stimulus and response method) Observing the student's response in the practical explanation halls

Evaluation methods

Theoretical exams

D- General and transferable skills (other skills related to employability and personal development)

1- Teaching students the method of dialogue and discussion to solve dilemmas

Course structure (theoretical aspect)

(

Evaluation method	week	Required learning outcomes	Unit name/topic	method Teaching	Evaluation method
For short, semester, annual and final exams. For laboratory practical exams.	**As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.**	Dental Material	**Introduction and physical properties of dental material** ▪ **Introduction to dental materials** ▪ **Physical, chemical and biological properties of dental materials**	**1**	**1**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Mechanical properties** ▪ **Mechanical properties**	**1**	**2**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Gypsum materials** ▪ **Definition, requirement, types,** ▪ **gypsum bonded investment** ▪ **phosphate bonded investment** ▪ **ethyl silicate bonded**	**1**	**3**

For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Gypsum materials**	**1**	**4**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Impression materials** ▪ **Definition** ▪ **Ideal properties of impression materials** ▪ **Classification of impression materials** ▪ **Non elastic impression materials** ▪ **Impression plaster** ▪ **Impression compound** ▪ **Zinc oxide - eugenol** ▪ **Elastomeric impression material**	**1**	**5**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Impression materials**	**1**	**6**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the	Dental Material	**Impression materials**	**1**	**7**

	Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.				
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Impression materials**	**1**	**8**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Impression materials**	**1**	**9**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with	Dental Material	**Waxes** ▪ **Definition,** ▪ **Requirements,** ▪ **classification of wax according to origin & melting point,** ▪ **classification of wax according to uses, properties of dental waxes.**	**1**	**10**

	professors, and direct dealing with dental materials.				
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Waxes**	**1**	11
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Polymers** ▪ **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** ▪ **Chemically activated resin compared to heat activated resins** ▪ **Polymers used in dentistry** ▪ **Processing errors**	**1**	**12**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Polymers**	**1**	**13**
For short,	As for the theoretical	Dental Material	**Investment materials** ▪ **factors affecting setting time, setting**	**1**	**14**

semester, annual and final exams. For laboratory practical exams.	curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.		**expansion, strength, storage and manipulation of gypsum** ▪ **products, and hygroscopic expansion**		
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Cement materials** ▪ **Classification of dental cements** ▪ **Definition** ▪ **Requirements**	**1**	**15**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Temporary filling** ▪ **Definition** ▪ **indication** ▪ **Types** ▪ **Requirements**	**1**	**16**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program.	Dental Material	**Metal and metal alloy** ▪ **Metallic denture base materials** ▪ **Types of metal and metal alloys** ▪ **Definition of alloy** ▪ **Requirement of casting alloy** ▪ **Application of dental alloy** ▪ **classification of metal** ▪ **classification of dental alloy** ▪ **gold foil (advantage, disadvantages)** ▪ **gold alloys**	**1**	**17**

	As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.		▪ **Composition1** ▪ **Properties**		
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Metal and metal alloy**	**1**	**18**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Metal and metal alloy** ▪ **Alternative of gold alloys** ▪ **Metal ceramic alloys** ▪ **Requirement** ▪ **Types** ▪ **Removable denture base alloys** ▪ **Requirements** ▪ **Types** ▪ **Co-Cr alloy** ▪ **Application** ▪ **Composition** ▪ **properties,** ▪ **Advantages** ▪ **Disadvantages**	**1**	**19**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct	Dental Material	**Metal and metal alloy** ▪ **Titanium and Titanium alloys** ▪ **Applications** ▪ **Properties** ▪ **Ni/Cr alloys** ▪ **Composition** ▪ **Indications** ▪ **Wrought stainless steel alloy**	**1**	**20**

	dealing with dental materials.				
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Filling materials** ▪ **Direct filling material** ▪ **Definition** ▪ **Factors causing loss** ▪ **of tooth substance** ▪ **Requirement of an ideal filling material.** ▪ **Classification of filling material** ▪ **Anterior filling materials Disadvantages Composite filling materials composition and structure** ▪ **Types of composite** ▪ **Posterior filling materials** ▪ **Dental amalgam** ▪ **Classification of amalgam alloys** ▪ **Properties of set amalgam** ▪ **Shaping and finishing** ▪ **Mercury toxicity**	**1**	**21**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Filling materials**	**1**	**22**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Filling materials**	**1**	**23**
For short, semester, annual and final	As for the theoretical curriculum, the	Dental Material	**Filling materials**	**1**	**24**

exams. For laboratory practical exams.	teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.				
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Preventive materials**	**1**	**25**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Root canal filling materials (obturating materials)** ▪ **Root canal filling** ▪ **materials (obturating materials)**	**1**	**26**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory,	Dental Material	**Finishing and polishing material** **Finishing and polishing material**	**1**	**27**

	it includes live explanation, interaction with professors, and direct dealing with dental materials.				
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Relining material** ▪ **Definition** ▪ **Types** ▪ **Requirements** ▪ **Indication** ▪ **Soft liners** ▪ **Types** ▪ **Requirements** ▪ **Indication** ▪ **Properties**	**1**	**28**
For short, semester, annual and final exams. For laboratory practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental materials.	Dental Material	**Implant materials** ▪ **Implant materials**	**1**	**29**
Short, midterm, semester, annual and final exams. For the laboratory, practical exams.	As for the theoretical curriculum, the teaching method includes preparing lectures using the Power Point program. As for the laboratory, it includes live explanation, interaction with professors, and direct dealing with dental	Dental Material	**Maxillofacial materials** ▪ **Maxillofacial materials**	**1**	**30**

	materials.				

Laboratory sessions

No.	Title of lab.
1-	Introduction and physical properties of dental material
2-	Mechanical properties (stress strain curve)
3-	Showing different types of gypsum materials (plaster and
4-	Steps of mixing plaster and demonstrate the steps of settin
5-	Impression plaster, demonstrate the manipulation of impr compound
6-	Zinc oxide impression material and agar impression demo mixing of zinc oxide impression
7-	Alginate impression (elastic impression) showing the trays mixing of alginate and water according to manufacturer i
8-	Polysulphide, condensation and addition silicon\mixing of and light body
9-	Polyether, hybrid impression, digital impression
10-	Showing different types of wax (denture base plate, dentu wax and others
11-	Demonstrate how to use wax material and its manipulatio
12-	Introduction to polymers
13-	Different types of denture base materials(heat, cold and li polymers) demonstrate the mixing of polymer and monon
14-	Thermoplastic polymers (flexible denture base material)
15-	Investment materials (showing the method of the investme
16-	Introduction to cement materials
17-	Showing different types of cement materials and the meth of cement
18-	Temporary filling (use and manipulation)
19-	Introduction to metal and metal alloy
20-	Showing the different types of metal and metal alloy
21-	Introduction to crown and bridge material
22-	Introduction to filling material
23-	Amalgam filling showing the amalgam capsules and mixin amalgam
24-	Composite filing (chemical and light activated)
25-	Micro filled, hybrid, and nano-composite
26-	Demonstrate the setting of chemical and light activated co filling material
27-	Showing different types of preventive materials (tooth pas Mouth wash fluoride varnishes and resin sealers)
28-	Demonstrate the obturating materials (Gutta percha, seal endodontic instruments
29-	Finishing and polishing materials
30-	Relining materials
Total	

Higher Education - Faculty of Dentistry	1. Educational Institution
Faculty of Dentistry / Orthodontics Department	2. Academic Department/Center
Dental Industry	3. Course Name/Code
Weekly	4. Available Attendance Forms
Second Stage	5. Semester/Year

6. Number of Study Hours (Total)	30 ساعة نظري / العملي 120 ساعة
7. Date of Preparation of this Description	2023-2024

Course Objectives

- ▪Defining the dental industry in general, as it is one of the most important subjects that the student will continue to study for the next four years

Defining the terms that will be used in explaining the curriculum so that the student can understand them correctly

Practical laboratory steps for manufacturing a complete set and practical training in laboratories to use and adapt the materials used in manufacturing the set

9. Learning outcomes, teaching and learning methods and evaluation

A- Cognitive objectives

- Providing the necessary information to deal with the materials involved in the dental industry process and manufacturing the complete set in particular.

Making the student familiar and able to master all the laboratory steps for manufacturing the complete set.

Course structure (theoretical aspect)(

Evaluation method	Teaching method	Unit name/topic	Theoretical content	hour	week
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Introduction** • **Complete denture** ✓ **Objective of complete denture** ✓ **General consideration in complete denture construction** ✓ **Complete denture component parts**	**1**	**1**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Anatomical landmarks** • **Anatomical landmarks** ✓ **Maxillary arch anatomical landmarks** ➢ **Supporting structures** ➢ **Limiting structures** ➢ **Relief areas**	**1**	**2**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Anatomical landmarks** **Anatomical landmarks** ✓ **Mandibular arch anatomical landmarks** ➢ **Supporting structures** ➢ **Limiting structures** ➢ **Relief areas**	**1**	**3**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Complete Denture Impression** ▪ **Impression tray - Definition** ▪ **Parts of the impression tray** ▪ **Types of tray** ▪ **Stock tray – Definition** ▪ **Types of stock trays** ▪ **Factors effect in selection of stock tray**	**1**	**4**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Complete Denture Impression** ▪ **Special tray** ✓ **Advantages of special tray** ✓ **Materials used for construction of special tray** ✓ **Types of special tray** **Techniques or methods for construction of special tray** **Criteria for special tray construction**	**1**	**5**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Complete Denture Impression** **Dental impression - Definition** **Complete denture impression - Definition** **Objective of impression making** **Primary impression - Definition** **Materials used for making primary impression** **Primary cast - Definition** **Production of study cast** **Secondary impression** **- Definition** **Master cast- Definition** **Materials used for final impression** **Technique used for making final impression** **Boxing an impression and making the casts** **Advantages of boxing** **Common fault in impression making**	**1**	**6**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Record Base** • **Record base - Definition** • **Requirements of record base** • **Types of materials used in construction of record base**	**1**	**7**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Occlusion Rims** ▪ **Occlusion rims - Definition** ▪ **Requirements of occlusion rim** ▪ **Materials used in construction of occlusion rim** ▪ **Measurements of maxillary occlusion** ▪ **rim** ▪ **Measurements of mandibular occlusion rim** ▪ **Uses of occlusion rim** ▪ **Occlusal plane** ▪ **Fox – bite**	**1**	**8**

Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Anatomy And Physiology Of Temporomandibular Joint** ▪ **Temporomandibular joint (TMJ) – Definition** ▪ **Ligaments** ▪ **Muscles**	**1**	**9**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Anatomy And Physiology Of Temporomandibular Joint** ▪ **Mandibular axes and mandibular movements** ▪ **Knowledge of mandibular movements** ▪ **Mandibular movements**		**10**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Maxillomandibular relation** **Types of jaw relation** ✓ **Vertical jaw relation** ➢ **Rest position** ➢ **Inter – occlusal distance** ➢ **Importance of vertical dimension** ➢ **Increased vertical dimension** ➢ **Decreased vertical dimension**	**1**	11
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Methods Of Recording Vertical Relation** **Method of recording rest vertical dimension** **Method of recording occlusal vertical dimension** **Pre – extraction records** **Methods without pre – extraction record**	**1**	**12**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Horizontal Jaw Relation** **Centric jaw relation** ✓ **Importance of centric jaw relation** ✓ **Methods of recording jaw relation** ✓ **Factors that complicates centric jaw relation** ✓ **Methods of recording eccentric jaw relation**		**13**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Dental Articulators** (Classification & Digital computerized articulator programming) **Dental articulator** Definition ✓ **Functions of articulator** ✓ **Requirements of articulator** ✓ **Types of articulator**	**1**	**14**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Face – Bow** **Face- bow** Definition ✓ **Parts of face – bow** ✓ **Types of face – bow** ✓ **Important of the face – bow**	**1**	**15**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Mounting** 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**	**1**	**16**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Selection Of Artificial Teeth** **Selection of anterior teeth** ✓ **The factors of shade selection** ✓ **Size selection a. Length b. Width** ✓ **Form selection** ✓ **Materials of anterior teeth** ✓ **Difference between acrylic and porcelain teeth**	**1**	**17**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Selection Of Posterior Teeth** Shade **Bucco-lingual width** **Mesio-distal length** **Occluso-gingival height** **Occlusal form**	**1**	**18**

			Advantages of casp form teeth **Advantages of non- cusp form teeth**		
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Arrangement Of Artificial Teeth** **Guideline of artificial teeth arrangement** Arrangement of **anterior teeth** ✓ **Arrangement of upper anterior teeth** **Arrangement Of Posterior Teeth** **Curve of Spee** **Compensatory curves** **Arrangement of lower posterior teeth** **Arrangement of upper posterior teeth** **Common errors in arrangement of teeth**	**1**	**19**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Arrangement Of Posterior Teeth** **Curve of Spee** **Compensatory curves** **Arrangement of lower posterior teeth** **Arrangement of upper posterior teeth** **Common errors in arrangement of teeth**	**1**	**20**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Waxing And Carving** ▪ 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**	**1**	
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Complete Denture Occlusion** Occlusion ✓ **Occlusion of complete denture** ✓ **Centric occlusion** ✓ **Centric relation**		**22**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Complete Denture Occlusion** **Eccentric occlusion** **Concepts of complete denture occlusion** **Try-in appointment**	**1**	**23**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Processing Of The Denture (Flasking)** **Flasking of the denture** ✓ **Flasking techniques**	**1**	**24**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Occlusal Correction** **Causes of errors in occlusion** **Selective grinding** **Correction of occlusal errors** **Disadvantages of intra** **– oral correction** **Advantages of extra – oral correction** **Rules for selective** **grinding**	**1**	**25**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Finishing And Polishing Of Complete Denture** **Procedure of finishing** **Grinding and cutting instruments** **Polishing of complete denture** **Principles of polishing** **Procedures of polishing**	**1**	**26**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Repair Of Complete Denture** **Types of material used in repair** **Causes of denture fracture** **Types of repair** **Laboratory procedure for repairing fractured denture base**	**1**	**27**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Repair Of Complete Denture** **Replacement of broken or missing tooth** **Replacement of missing or lost part** **Requirement of repair**	**1**	**28**

Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Relining And Rebasing** **Indication for relining or rebasing** Relining **Contraindications of relining and rebasing** **The impression techniques for relining and rebasing**	**1**	**29**
Short, semester, mid-year and final exams	Theoretical lecture using power point	prosthetic	**Relining And Rebasing** **Laboratory procedures for relining** Rebasing **The chair – side reline technique**	**1**	**30**

Course structure (practical aspect)

Evaluation method	Teaching method	Unit name/topic	**Theoretical content**	hour	week
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Clinical and laboratory steps of complete denture construction	**2**	**1**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Taking primary impression on metal mold by impression compound and beading and boxing and pouring by dental plaster	**2**	**2**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Pouring on rubber mold (upper and lower primary cast)	**2**	**3**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Description of anatomical landmarks (maxillary and mandibular arch)	**2**	**4**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Demonstration of making upper and lower special tray by cold cure acrylic	**2**	**5**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Finishing and polishing of special tray and evaluation	**2**	**6**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Demonstration of taking final impression and construction of master cast	**2**	**7**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Evaluation of record base construction, finishing and polishing	**2**	**8**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Bite rims construction (upper and lower arch)	**2**	**9**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Demonstration of face bow and fox bite and description of types of jaw relation	**2**	**10**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Description about the methods of recording vertical jaw relation	**2**	11
Practical exams: short, semester,	Practical lecture using	prosthetic	Description about the methods of recording horizontal jaw relation	**2**	**12**

mid-year and final	PowerPoint				
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Demonstration about the types of articulators, parts, its uses and action	**2**	**13**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Mounting of upper and lower casts on articulators	**2**	**14**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Mounting of upper and lower casts on articulators (continue) and evaluation of the student work	**2**	**15**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Description the methods of selection of anterior and posterior teeth for complete denture	**2**	**16**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Demonstration about arrangement of upper and lower anterior teeth	**2**	**17**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Arrangement of upper and lower anterior teeth (continue) and evaluation of the student work	**2**	**18**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Demonstration about arrangement of upper and lower posterior teeth	**2**	**19**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Arrangement of upper and lower posterior teeth(continue).	**2**	**20**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Arrangement of posterior teeth and carving of posterior palatal seal and evaluation of the student work	**2**	21
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Demonstration about carving and waxing of upper complete denture.	**2**	**22**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Carving and waxing of lower complete denture (continue) and evaluation of the student work	**2**	**23**
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Flasking and investment of the denture	**2**	**24**

Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Wax elimination, packing and curing of heat cure acrylic	2	25
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Deflasking ,finishing and polishing of upper complete denture	2	26
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Deflasking ,finishing and polishing of lower complete denture (continue)	2	27
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Demonstration of selective grinding	2	28
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Repair of fracture denture	2	29
Practical exams: short, semester, mid-year and final	Practical lecture using PowerPoint	prosthetic	Repair of missing tooth	2	30

11. البنية التحتية	
	1- Required textbooks
Philips scince of dental materials 2012 edition 12 Craig's Restirative dental materials 2018 edition 14	2- Main references (sources)
2- Main references (sources)	
A) Recommended books and references	A) Recommended books and references

12. Curriculum development plan

- Developing the curriculum content by deleting, adding and replacing.

University of Maysan / College of Dentistry	1. Educational Institution
Branch of Basic Medical Sciences	2. Academic Department/Center
Human Anatomy	3. Course Name
Weekly	4. Available Attendance Forms
First and Second Semester / Second Stage	5. Semester/Year
30 theoretical hours and 60 practical hours	6. Number of Study Hours (Total)
2024-2023	7. Date of Preparation of this Description

Evaluation Methods
- Theoretical exams.
- Practical exams.
- Oral exams.
- Quick exams.
C- Affective and value-based objectives
C1- Enhancing affective and value-based objectives through problem-based learning.

Course structure.10					
Evaluation method	method Teaching	Unit name/topic	Required learning outcomes	week	hour
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Scalp	2	1
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	The orbital region	2	2
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	The Nasal region	1	3
Practical, semester, mid-year and final	Theoretical lecture using power point	General anatomy	Mandibular nerve	1	4

exams					
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Face	2	5
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Oral cavity	2	6
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Tongue	1	7
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Temporal region	1	8
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Parotid gland	2	9
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	The Pterygopalatine fossa	1	10
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Temporomandibular joint	2	11
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	The neck	2	12
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Triangles of the neck	2	13
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Submandibular region	1	14
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Root of the neck	2	15
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Arteries of the neck	2	16

Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Brain	1	17
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Cranial nerves	1	18
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Pharynx	1	19
Practical, semester, mid-year and final exams	Theoretical lecture using power point	General anatomy	Larynx	1	20

Laboratory sessions

No.	Title of the sessions	Hours
1	Anatomy of scalp	2
2	Anatomy of face part 1	2
3	Anatomy of face part 2	2
4	Anatomy of parotid region	2
5	Temporal, infratemporal fossa	2
6	muscles of mastication	2
7	Mandibular nerve	2
8	Maxillary artery	2
9	Pterygopalatine fossa	2
10	Maxillary nerve	2
11	Nasal cavity and paranasal sinuses	2
12	Tempromandibular joint (TMJ)	2
13	Orbital region and Muscles of the eye	2
14	Ophthalmic nerve, artery and vein	2
15	anatomy of eyeball	2
16	Anatomy of mouth(The Lips ,oral Cavity,Tongue)	2
17	The Palate	2
18	Superficial anatomy of neck	2
19	Triangles of neck	2
20	Arteries of head and neck (internal carotid artery)	2
21	External carotid artery	2
22	Subclavian artery	2
23	Veins of the Head and Neck (internal jugular vein, subclavian vein, and venus sinuses)	2
24	Anatomy of brain	2
25	Submandibular region	2
26	Anatomy of pharynx	2
27	Lymph drainage of head and neck	2
28	Anatomy of larynx	2
29	Root of neck	2
30	Cranial nerves	2
Total		60

Theird stage

Higher Education - Faculty of Dentistry	1. Educational institution
Faculty of Dentistry / Orthodontics Department	2. Academic department/center
Conservative	3. Course name/code
Weekly	4. Available forms of attendance
Two Semesters / Third Stage	5. Semester/year
30 Theoretical Hours and 60 Practical Hours	6. Number of study hours (total)
2023-2024	Date this description was prepared .7
Data show, lecture, LCD, educational movies,	

طريقة التقييم	طريقة التعليم	Unit name/topic	**Theoretical content**	الساعات	الاسبوع
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Definition of operative dentistry	**2**	**1**
For short, semester, annual and final exams. For laboratory	Theoretical lecture using power point	Conservative	Definition of operative dentistry	**2**	**2**

practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Instruments and general instrumentation of cavity preparation	**2**	**3**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Sterilization of operative instruments	**2**	**4**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Sterilization of operative instruments	**2**	**5**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Sterilization of operative instruments	**2**	**6**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Amalgam cavity preparations for class I	**2**	**7**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Amalgam cavity preparations for class I	**2**	**8**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Amalgam cavity preparations for class II	**2**	**9**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Amalgam cavity preparations for class II	**2**	**10**
For short, semester, annual and final	Theoretical lecture using	Conservative	Amalgam cavity preparations for class II (MOD)	**2**	11

exams. For laboratory practical exams.	power point				
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Amalgam cavity preparations for class II (MOD)	**2**	**12**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Amalgam cavity preparations for class III and class V	**2**	**13**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Amalgam cavity preparations for class III and class V	**2**	**14**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Cavity liners and cement bases (part 1)	**2**	**15**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Cavity liners and cement bases (part 2)	**2**	**16**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Cavity liners and cement bases (part 3)	**2**	**17**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Cavity liners and cement bases (part 4)	**2**	**18**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Dental amalgam alloys (material)	**2**	**19**
For short,	Theoretical	Conservative	Dental amalgam alloys (material)	**2**	**20**

semester, annual and final exams. For laboratory practical exams.	lecture using power point				
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Complex amalgam restoration	**2**	21
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Complex amalgam restoration	**2**	**22**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Failures in amalgam restorations	**2**	**23**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Failures in amalgam restorations	**2**	**24**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Tooth colored restorations (composite)	**2**	**25**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Tooth colored restorations (composite)	**2**	**26**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Cavity preparation for anterior restorations	**2**	**27**
For short, semester, annual and final exams. For laboratory	Theoretical lecture using power point	Conservative	Cavity preparation for anterior restorations	**2**	**28**

practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Resin material	**2**	**29**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Conservative	Resin material	**2**	**30**

Lab number	Study unit title Preclinical Operative Dentistry	Hours
1	Introduction to operative dentistry, and to work in phantom lab. Demonstration about the rotary instrument, and how to cut geometrical cavities (circle, triangle, square, rectangle, and dove-tail), and leave students to work under supervision.	2
2	Demonstration of how to use phantom head, working positions for both student and phantom head, also demonstration cavity preparation on buccal pit of lower 1st molar and palatal pit of upper lateral incisor.	2
3	Demonstration of principles of amalgam cavity preparation for CL I on the occlusal surface of lower 2nd premolar on the board then do demonstration of cutting on the phantom head. Quiz about the principles of CL I amalgam cavity preparation.	2
4	Demonstration amalgam CL I cavity for lower 1st premolar and Leave students to work under supervision.	2
5	Demonstration amalgam CL I cavity for upper 1st molar (two separated cavities) on the phantom head and teaching the students how to work indirectly by using mirror. Leave students to work under supervision.	2
6	Demonstration amalgam cavity for the palatal extension in upper 1st molar (continue with last lab in distal occlusal cavity), and Demonstration on the hand instrument groups, and teach students to differentiate between them.	2
7	Practical assessment for the students in amalgam CL I cavity on lower 1st molar. Oral quiz on the hand instrument and their groups.	2
8	Demonstration amalgam CL II MO cavity for lower 1st premolar	2
9	Demonstration amalgam CL II MO cavity for upper 1st molar	2
10	Practical assessment for the students in amalgam CL II MO cavity on lower 1st molar. Quiz in amalgam CL II cavity lectures.	2
11	Demonstration amalgam CL II MOD cavity for lower 1st molar	2
12	Demonstration amalgam CL II MOD cavity for upper 2nd molar	2
13	Practical assessment for the students in cavity preparation of amalgam CL II MOD cavity on lower 2nd molar.	2
14	Demonstration amalgam CL V cavity for lower 2nd premolar, upper 1st molar and upper 2nd premolar.	2
15	Demonstration amalgam CL III cavity in distal side of upper canine.	2
16	Demonstration of the liner and base placement, their indication, advantage, and uses.	2
17	Supervised students in mixing and placing zinc phosphate cement in CL	2

	II DO cavity of lower 2nd premolar.	
18	Supervised students in mixing and placing zinc phosphate cement in CL II MO cavity of upper 1st molar and CL II MOD cavity of lower 2nd molar..	2
19	Practical assessment for the students in zinc phosphate mixing and placement in CL II MOD cavity on lower 1st molar.	2
20	Amalgam filling of CL I cavity of lower 1st premolar	2
21	Amalgam filling of CL II cavity of lower 2nd premolar.	2
22	Amalgam filling of CL II cavity of upper 1st molar.	2
23	Amalgam filling of CL II MOD cavity of upper 2nd molar.	2
24	Practical assessment on Amalgam filling of CL II MOD cavity of lower 1st molar.	2
25	Amalgam filling of CL V cavities of upper 1st molar and lower 2nd premolar.	2
26	Preparation of CL III composite cavity on upper central incisor with composite filling placement (light cure)	2
27	Preparation of CL III composite cavity on upper lateral incisor with composite filling placement (light cure	2
28	Preparation of CL V composite cavity on upper central incisor with composite filling placement (light cure).	2
29	Final practical assessment.	2
30	Finishing and evaluation of the practical work.	2
Total		60

11. Infrastructure

	1- Required textbooks
Conservative Operative Lect. 1- Summitt's fundamentals of operative dentistry: A contemporary approach. 4th edition. 2- Art and science of operative dentistry 7th edition Crown Lect. 1- 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.	
	2- Main references (sources)
موقع الكلية الالكتروني	A) Recommended books and references (scientific journals, reports.....,(

Evaluation method	Teaching method	Unit name/topic	**Theoretical content**	hour	week
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Introduction to Removable Partial Dentures • Partial dentures Removable partial denture (RPD) Objectives for RPD construction Causes of teeth loss Indications of removable partial dentures Fixed partial denture Indications for fixed partial denture Dental implant therapy Contraindications for dental implant therapy Terminology and re- finishing	**1**	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Classification of Partially Edentulous Arches Need for classification. Requirements of an acceptable method of classification Removable partial dentures may be 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	**1**	**2**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Surveying The ideal requirements for successful removable partial denture 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)	**1**	**3**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Surveying (continue) Principles of surveying Types of undercuts established by surveying Factors that determine and affect the path of placement (insertion) and removal of the RPD Rules of surveying	**1**	**4**
For short,	Theoretical	Prosthetics	Component Parts of a Removable Partial Denture Main components of RPD Major connectors	**1**	**5**

semester, annual and final exams. For laboratory practical exams.	lecture using power point		Requirements of major connectors Guidelines for design and location of major connectors Characteristics of major connectors		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Maxillary Major Connectors Special Structural Requirements for Maxillary Major Connectors 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	**1**	**6**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Mandibular Major Connectors Special structural requirements Types of mandibular major connectors Lingual bar Methods that may be used to determine the relative height of the floor of the mouth Lingual plate (linguoplate) The indicationsfor 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 Characteristics and location	**1**	**7**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Minor Connectors Definition Functions Form & location Basic types of minor connectors Tissue stops Finishing lines Reaction of Tissue to Metallic Coverage	**1**	**8**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Rests and Rest Seats 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	**1**	**9**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Retention and Removable Partial Denture Retainers 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	**1**	**10**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Extra Coronal Direct Retainers (Types of clasp assemblies) 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-action clasp (Hairpin) Disadvantages of circumferential clasps in summary Clasps designed to accommodate distal extension functional movement RPI clasp	**1**	11

			Bar-type clasp assembly RPA clasp; Akers clasp Infra-bulge clasp Combination clasp		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Intracoronal Direct Retainers (Internal Attachments, Precision Attachments 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	**1**	**12**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Stress-Breakers (Stress Equalizers) Stress breakers Types of stress breakers	**1**	**13**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Indirect Retainers The main factors influencing the effectiveness of an indirect retainer The auxiliary functions of indirect retainers Forms of Indirect Retainers	**1**	**14**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Indirect Retainers (continue) Auxiliary occlusal rest Lingual rest Incisal rest Canine extensions from occlusal rests Cingulum bars (continuous bars) and linguo-plates Modification areas Rugae support	**1**	**15**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Laboratory procedures in RPD construction: Blockout and Relief Blockout and relief Cast preparation Types of blockout of master cast Parallel blockout Shaped blockout Arbitrary blockout Relieving the master cast Purpose of relief Sites Tissue Stops	**1**	**16**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Laboratory procedures in RPD construction: Duplication and Refractory Cast Construction Duplicating a stone cast Duplicating material and flask Impression Refractory cast	**1**	**17**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Laboratory procedures in RPD construction: Wax Pattern Waxing the framework Spruing General rules for spruing Investing the sprued pattern Purpose of investment Burnout	**1**	**18**
For short,	Theoretical	Prosthetics	Laboratory procedures in RPD construction: Casting and Finishing Casting	**1**	**19**

semester, annual and final exams. For laboratory practical exams.	lecture using power point		Casting recovery Finishing the framework Sprue removal		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Denture Base in RPD The primary function of denture base Types of denture base according to 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 Types of artificial teeth	**1**	**20**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Record Bases, Occlusion Rims, Mounting and Arrangement of Teeth Record bases Types of record bases according to materials constructed from it Occlusion rims Occlusion rims for static jaw relation records 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 teeth (Example)	**1**	21
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Biomechanics of Removable Partial Dentures Biomechanical considerations Possible movements of partial dentures Tooth-tissue–supported prosthesis	**1**	**22**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Biomechanics of Removable Partial Dentures (continue) Tooth-supported partial denture Occlusal Rest Seat Preparation and Denture Movement Impact of Implants on Movements of Partial Dentures	**1**	**23**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Principles of Removable Partial Denture Design Difference in Prosthesis Support and Influence on Design Differentiation Between Two Main Types of Removable Partial Dentures	**1**	**24**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Principles of Removable Partial Denture Design (continue) Components of Partial Denture Design Implant Considerations in Design	**1**	**25**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Clinical Phases of Removable Partial Denture Construction. 1st Phase: Education of patient 2nd Phase: Diagnosis, Treatment Planning, Design, Treatment Sequencing, and Mouth Preparation 3rd Phase: Support for Distal Extension Denture Bases 4th Phase: Establishment and Verification of Occlusal Relations and Tooth Arrangements 5th Phase: Initial Placement Procedures 6th phase: Periodic Recall	**1**	**26**

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Acrylic Removable Partial Dentures Acrylic removable partial dentures Appearance Maintenance of space Reestablishment of occlusal relationships Conditioning of teeth and residual ridges Interim restoration during treatment Conditioning the patient for wearing a prosthesis Clinical procedure for placement	**1**	**27**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Flexible Removable Partial Dentures Flexible removable partial dentures Type of material used for the flexible denture Support Retention	**1**	**28**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Repairs and Additions to Removable Partial Dentures Broken clasp arms Several reasons for breakage of clasp arms Fractured occlusal rests Distortion or breakage of other components – major and minor connectors Addition of a new artificial tooth to a RPD Repair by soldering	**1**	**29**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	Digitally Designed & Fabrication Process of RPD Framework Using CAD/CAM System Components of CAD/CAM system Types of Digital Scanner Digital RPD Framework Design (step by step) Digital Fabrication Process	**1**	**30**
طريقة التقييم	طريقة التعليم	Unit name/topic	**Theoretical content**	الساعات	الاسبوع
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Introduction to Removable Partial Dentures		**1**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Kennedy Classification		**2**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Cast Trimming		**3**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Surveying		**4**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Surveying		**5**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Wire Bending		**6**
Practical,	Practical	Prosthetics	Wire Bending		**7**

semester, mid-year and final exams	laboratories				
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Acrylic Removable Partial Denture Design		**8**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Acrylic Removable Partial Denture Laboratory Procedures		**9**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Acrylic Removable Partial Denture Laboratory Procedures		**10**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Flexible Partial Denture Design		11
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Flexible Partial Denture Laboratory Procedures		**12**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Flexible Partial Denture Laboratory Procedures		**13**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Flexible Partial Denture Laboratory Procedures		**14**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Principles of 2D Design for the Removable Partial Denture s		**15**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Principles of 2D Design for the Removable Partial Denture s		**16**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Principles of Drawing 2D Design for the Removable Partial Dentures		**17**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	2D Design for Mandibular & Maxillary Arches		**18**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	2D Design for Mandibular & Maxillary Arches		**19**
Practical,	Practical	Prosthetics	2D Design for Mandibular & Maxillary Arches		**20**

semester, mid-year and final exams	laboratories				
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Drawing Removable Partial Denture 3D Design & CAD/CAM		21
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Drawing Removable Partial Denture 3D Design & CAD/CAM		**22**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Types of Rests		**23**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Rest Seat Preparation		**24**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Block Out and Relief		**25**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Block Out and Relief		**26**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Duplication Of the Master Cast		**27**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Wax Pattern for the Removable Partial Denture Framework		**28**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Wax Pattern for the Removable Partial Denture Framework		**29**
Practical, semester, mid-year and final exams	Practical laboratories	Prosthetics	Framework Fabrication		**30**

11. Infrastructure	
	1. Required textbooks

McCracken's Removable Partial Prosthodontics13th Edition - November 3, 2015 ▪ Robert, W. L. (2018) Removable Partial Denture Manual. Dalhousie University	
	2. Main references (sources)
College website	

University of Maysan / College of Dentistry	1. Educational institution
Branch of Basic Medical Sciences	2. Academic department/center
Microbiology	3. Course name
Weekly	4. Available forms of attendance
Two semesters / Third stage	5. Semester/year
60 theoretical 60 practical	6. Number of study hours (total)
2023-2024	7. Date this description was prepared

Course structure.10					
week	hour	**Theoretical content**	Unit name/topic	Teaching method	Evaluation method
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Morphology, Ultra structures, physiology and metabolism of microorganisms:- -Eukaryotic & Prokaryotic cells -Cell structure of prokaryotes -Comparison between G+ve & G-ve cell wall	2	1
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	-Microbial growth, growth curve -Metabolism of microorganisms Molecular biology & bacterial genetics	2	2
For short, semester, annual and final exams. For	Theoretical lecture using power point	Microbiology	-Sterilization and Disinfection	2	3

laboratory practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Antibiotic and chemotherapy:- -Antibiotic, sources -Mode of action of antibiotic -Anti-microbialsensitivity tests -Bacterial resistance -Prophylactic use	2	4
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	- Introduction to general immunology and oral immunology - Non-specific and specific immunity – Antigen - Immunoglobulin - Humeral and Cellular Immunity	2	5
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	- Cells and organs of the immune system - Complement system - Human leukocyte antigen - Role of complement and HLA in oral disease	2	6
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	- Oral and mucosal immunity - Autoimmunity and immune tolerance	2	7
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Hypersensitivity reactions - Antimicrobial and immunological defenses of saliva and gingival crevicular fluid components	2	8
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Host-parasite relationship & Nosocomial infection -Symbiosis, Commensalism, Amphibiosis, Antagonistic -Sources of infection in hospital and -nosocomial infections -Post-operative wound infection, burns infections	2	9

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Streptococci -Pyogenic Streptococci -Lancefield group - Pathogenesis of streptococci	2	10
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Staphylococci -Virulence factors - and pathogenesis -Epidemiology, treatment and prevention	2	11
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	G- negative diplococcic , Vellionella and Moraxella Neisseria gonorrhea, N. meningitidis	2	12
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Lactobacilli, Actinomyces and Corynebacterium diphtheriae & Diphtheroids	2	13
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Bacillus: B. subtilis, B. anthracis and B.ceres	2	14
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Clostridium : C. perfringenis , C. tetani, C. botulinum, and difficile	2	15
For short, semester, annual and final exams.	Theoretical lecture using power point	Microbiology	Enterobacteriaceae -E.coli, Salmonella, Shigella,	2	16

For laboratory practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Enterobacter, Klebsiella, proteus, Yersinia	2	17
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Mycobacteruim -Tuberculosis & Leprae	2	18
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Brucella, Haemophilus, Vibirio	2	19
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	- Aggregatibacter, porphyromonas, prevotella, Bacteroids	2	20
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Fusiforms and Spirochaetes -Fusobacterium, leptotichia	2	21
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Treponema and oral Treponema	2	22

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Mycoplasma, Chlamydia and Rickittsiae	2	23
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Ecology of oral flora -Indigenous flora -Supplemental flora -Transient flora -Sources of oral bacteria -Factors modulating growth of bacteria in the oral cavity	2	24
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Microbiology of dental caries -Dental plaque & plaque metabolism - plaque homeostasis -cariogenic microorganisms -Mutans Streptococci -Lactobacilli and Actinomyces	2	25
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Microbial colonizationCaries preventionAntibacterial factors in saliva- -Vaccination against dental caries	2	26
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Microbiology of periodontal disease and Endodontics - Subgingival microbial complex -specific , non-specific and Ecological plaque hypothesis - Porphyromonas, prevotella, Aggregatibacter virulence factors of periodontal pathogens endodontic microbiota and Routes of root canal infection -ecology of endodontic microbiology	2	27
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Microbiology	Virology	2	28
For short, semester, annual and final exams.	Theoretical lecture using power point	Microbiology	Virology(part3)	2	29

For laboratory practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power pointt	Microbiology	Oral mycology & Parasitology:	2	30

11. البنية التحتية	
1. Essential microbiology for dentistry 5th edition , 2018. 2. Kuby immunology 8th edition , 2019	1- Required textbooks
Jenni punt ; Sharon Stanford ; patricia Jones; judy owen	2- Main references (sources)
	A) Recommended books and references
	(Scientific journals, reports.....,

Laboratory sessions

Lab number	Study unit title	Hours
1	Orientation to the Microbiology laboratory	**2**
2	The microscope	**2**
3	Sterilisation and disinfection:	**2**
4	Bacterial growth	**2**
5	Types of culture media	**2**
6	Sampling and transport of test material	**2**
7	Laboratory cultivation of microorganisms	**2**
8	Bacterial identification:1-Macroscopical characteristics	**2**
	(colonial morphology and cultural characteristics).	
9	2. Microscopical examination (morphology of bacterial cells).	**2**
10	Staining	**2**
11	Biochemical tests (part 1).	**2**
12	Biochemical tests(part2).	**2**
13	Biochemical tests(part3).	**2**
14	Antibiotic sensitivity test(part 1).	**2**
15	Antibiotic sensitivity test(part 2).	**2**
16	Serological tests (antigen and antibody detection tests) (part 1).	**2**
17	Serological tests (antigen and antibody detection tests) (part 2).	**2**
18	Nucleic acid assays, Animal pathogenicity test	**2**
19	Staphylococci	**2**
20	Streptococci	**2**
21	Corynebacterium	**2**
22	Spore-forming Gram-positive bacilli: Bacillus spp.	**2**
23	Clostridium spp.	**2**
24	Mycobacterium spp.	**2**
25	Enterobacteriaceae (part1)	**2**
26	Enterobacteriaceae (part2)	**2**

27	Enterobacteriaceae(part3)	**2**
28	Neisseriae spp.	**2**
29	Virology	**2**
30	Mycology	**2**
Total		**60**

University of Maysan / College of Dentistry	1. Educational institution
Branch of Basic Medical Sciences	2. Academic department/center
Pharmaceuticals	3. Course name
Weekly	4. Available forms of attendance
Two semesters / Third stage	5. Semester/year
60 theoretical hours 60 practical hours	6. Number of study hours (total)
2023-2024	7. Date this description was prepared

Course structure .10					
week	hour	**Theoretical content**	Unit name/topic	Teaching method	Evaluation method
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Pharmacology: General concepts	2	1
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Pharmacokinetics and pharmacodynamics	2	2
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Autonomic nervous system from a pharmacological perspective (including cholinergic agonist and antagonist)	2	3
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Adrenergic agonists	2	4
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Adrenergic antagonists	1	5
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Antihypertensive drugs	2	6
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Management of angina and heart failure	2	7
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Management of arrhythmia	2	8
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Anticoagulants, antiplatelet and anti-hyperlipidemic drugs	2	9
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Local Hemostatic Agents in Dentistry	1	10
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Introduction the pharmacology of CNS drugs, sedative, hypnotics and antiseizures drugs	2	11

Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Antipsychotic and antidepressant drugs	2	12
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Local and general anaesthetics	2	13
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Drug of abuse and opioid analgesics	2	14
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Managements of diabetes mellitus	2	15
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Drugs affecting GIT	2	16
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Drugs acting on respiratory system (antihistamines and corticosteroids)	3	17
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Non-steroidal anti-inflammatory drugs (NSAIDs) part 1	2	18
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Non-steroidal anti-inflammatory drugs (NSAIDs) part2 and Steriods in Denistry	2	19
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Chemotherapeutic drugs (Principles of antimicrobial therapy)	2	20
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Cell wall inhibitors (part 1)	2	21
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Cell wall inhibitors (part 2)	2	22
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Protein synthesis inhibitors	2	23
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Quinolones, Folic acid antagonists and antimycobacterial	3	24

Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Antifungal, antiviral and antiprotozoal drugs	2	25
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Sex hormone and contraceptive	2	26
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Thyroid hormones and anti-thyroid drugs	2	27
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Anticancer drugs	1	28
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Dental Pharmacology: drugs and chemicals used in dental clinic	1	29
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Anticaries and drugs used in prevention of dental plaque	2	30
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Pharmacology**	Essential emergency drugs in dental clinic	2	31

11. البنية التحتية	
1. Lippincott's Illustrated Reviews Pharmacology 7th Edition , 2019. 2. Contemporary dental evidence, pharmacology based consideration 1st edition , 2019.	1- Required textbooks
Arthur H. jeske	2- Main references (sources)
	A) Recommended books and references (scientific journals, reports....., (

Laboratory sessions

Lab number	Study unit title	Hours
1	Introduction and animal (e.g rabbits) handling	**2**
2	Routes of drug administration (Part 1)	**2**
3	Routes of drug administration (Part 2)	**2**
4	Clinical parameters in drug pharmacokinetics (Part 1)	**2**
5	Clinical parameters in drug pharmacokinetics (Part 2)	**2**
6	Demonstration of common dosage forms used in clinical practice (Part 1)	**2**
7	Demonstration of common dosage forms used in dentistry (Part 2)	**2**
8	Cholinergic agonists and antagonists (Physostigmine Vs Curare)	**2**
9	Effects of Drugs on Human Blood Pressure (Part 1-B-Blockers)	**2**
10	Effects of Drugs on Human Blood Pressure (Part 2) (Nitrates Effect on Human Volunteers)	**2**
11	Effects of Drugs on The Arterial Blood Pressure Of Human (Part-3)	**2**
12	The effects of drugs and light on human eyes	**2**
13	The effects of drugs and light on human eyes	**2**
14	Effects of parasympathomimetic drugs on glandular secretions	**2**
15	The response of human skin to histamine and adrenaline	**2**
16	The response of human skin to histamine and adrenaline	**2**
17	Evaluation of Analgesics	**2**
18	Evaluation of analgesics (Opioids)	**2**
19	Evaluation of Anti-inflammatory Drugs	**2**
20	Evaluation of Anti-inflammatory Drugs	**2**
21	Local Anaesthesia	**2**
22	General Anaesthesia	**2**
23	General Anaesthesia	**2**
24	Prescription writing	**2**
25	Prescription writing	**2**
26	Prescription writing	**2**
27	Oral conditions and their treatment	**2**
28	Orodental preparation (part 1)	**2**
29	Orodental preparation (Part 2)	**2**
30	Dental health and endocarditis prevention	**2**
Total		**60**

University of Maysan / College of Dentistry	1. Educational Institution
Branch of Basic Medical Sciences	2. Academic Department/Center
Community Dentistry	3. Course Name
Weekly	4. Available Attendance Forms
Two semesters / Third stage	5. Semester/Year
30 theoretical hours	6. Number of Study Hours (Total)
2023-2024	7. Date of Preparation of this Description

Course structure .10					
week	hour	**Theoretical content**	Unit name/topic	Teaching method	Evaluation method
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	- Dental public health -Public health definition. -Dental Public health definition. - Community Dentistry. - Dental public health practitioners. - Public health impact of dental disease. - Tools of dental public health. 1-Epidemiology. 2-Biostatistics. 3-Social sciences. 4-Principles of administration. 5-Preventive dentistry.	1	1
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	-Dental public care - Steps in planning dental care for the patient - Steps in planning dental care for the community - Similarities between personal and community health care: - Differences between private dental practice and public health dentistry	1	2
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Epidemiology - Objectives of epidemiology. - Components of epidemiological study. - Essential steps in an epidemiological study. - Hypothesis. - Population at risk. - Morbidity. - Measurements of disease frequency. Epidemiological approach. - Measurement tools in epidemiology.	1	3
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Epidemiologicalstudies Types of Epidemiological studies: 1-Observational studies Types of observational studies - Descriptive studies. -Analytical studies. Case control studies Cohort studies	1	4
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	2-Experimentalstudies -Intervention Types of experimental studies	1	5
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Epidemiology of dental caries - Definition of dental caries - Epidemiology -Etiological factors of dental caries -Types of dental caries according to their anatomical (location) site. - Factors affecting epidemiology of dental caries	1	6
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Epidemiology of Periodontal Disease -Periodontal Diseases definition -Structure of the periodontal tissues -Epidemiology - Etiology of periodontal disease	1	7
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Epidemiology of Oral Cancer - Types of cancers - Etiology of oral cancer - Constituents of tobacco smoke - Potentially malignant lesions - Levels of prevention for oral cancer - Rehabilitation after Oral Cancer	1	8
For short,	Theoretical lecture	Community	Dental indices - Index - Uses of dental index - Classification of	1	9

semester, annual and final exams. For laboratory practical exams.	using power point		indices		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Indices used for assessment of dental caries -DMF index -Principles in recording DMF index - Calculation of DMFT/DMFS - Dental caries severity index - dmf index	1	10
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Indices used for assessment of periodontal disease - Oral Hygiene Indices: - Gingival inflammation indices - Periodontal indices	1	11
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Dental fluorosis Indices for assessment of dental fluorosis	1	12
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Biostatistics - Data - Types of data - Methods of Data Collection - Sampling Technique -Types of sample design	1	13
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Data presentation - Methods of data presentation -The tabulation of data.	1	14
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Measures of central tendency & dispersion -Measures of central tendency -Measures of dispersion.	1	15
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Fluoridation as a public health measure - History: - Sources of Fluoride -Water fluoridation -Types of fluoride	1	16
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Fluoridation Mechanism and Effects Mechanism of action -Anti-caries effects of fluoride. Metabolism of fluoride.- -Dental Fluorosis -Side effects of fluoride	1	17
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Occupational hazards in dentistry - Major occupational hazards - 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	1	18
For short, semester, annual	Theoretical lecture using power point	Community	Environment and health - Environment -Physical environment: -Biological environment: -	1	19

and final exams. For laboratory practical exams.			Psychological environment - Environmental indicators		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Effects of air pollution on health - Prevention and control of air pollution - Effects of radiation - Noise pollution	1	20
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	School Dental Health Program - Purpose of School Health Program - Guidelines for an ideal school dental program - School dental survey - phases in school oral health program	1	21
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Treatment need and demand - Need - categories of need - Demand - Factors affecting dental demands	1	22
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	- Dental manpower - Manpower definition	1	23
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Ethics in dentistry -Definition of ethics - Dentistry as a profession - Ethical principles	1	24
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Oral health care for special populations - Elderly people: - The main oral effects of aging - Pregnant women - Special Care Dentistry - Patients with special health care needs	1	25
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Forensic dentistry -Introduction - Application of forensic dentistry. -Bit marks -Person identification. -Dental identification.	1	26
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Dental auxiliary personal - Introduction. - Dental auxiliary classification. *Non operatory auxiliary. * Operatory auxiliary. - Four handed relationship.	1	27
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Primary health care - Introduction. - Elements (components) of Primary health care. -Principles of Primary health care. - Primary dental health care. -Community dental health services	1	28
For short, semester, annual and final exams. For laboratory	Theoretical lecture using power point	Community	Infection control - Introduction. - Concept of disease transmission. - The acquisition means of pathogens. -Transmission of infectious diseases. -Control of infectious diseases. - Personal barrier techniques. -	1	29

practical exams.			Instrument processing(sterilization).		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Community	Dental health education - Introduction. -Aims of health education. -Objective of health education. - Objective of dental health education. -Principle of health education. -Planning a health education programs.	1	30

11. Infrastructure	
- Preventive And Community Dentistry Public Health Dentistrythird Edition. - A Textbook Of Public Health Dentistry, CM Marya,JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD,2011	1- Required textbooks
Conducting oral and dental health awareness for school students and some institutions	2- Main references
	(Sources)

Clinical requirements

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

Ministry of Higher Education and Scientific Research / University of Maysan	1. Educational Institution
College of Dentistry / Oral Diagnosis Department	2. Academic Department/Center
Radiology	3. Course Name/Code
Weekly	4. Available Attendance Forms
Two semesters / Third stage	5. Semester/Year
30 theoretical hours / 60 practical hours	6. Total Number of Study Hours
2023-2024	7. Date of Preparation of this Description

8. Course objectives: The aim of the programme is to qualify dentists who are able to read and diagnose radiological images, how to work on radiological devices correctly, and how to deal with radiation risks. 9. Learning outcomes, teaching and learning methods and evaluation

A- Cognitive objectives
A1- Enabling the student to use X-ray devices correctly
A2- Explaining the importance of protection and prevention from radiation and its risks
A3- Enabling the student to read and diagnose X-ray images of various types
A4- Providing sufficient information about the latest types of devices and diagnostic methods in the field of oral and maxillofacial radiology
B- Skill objectives for the course B1- Reading X-ray images
B2- Using devices
B3- Possibility of protection from radiation risks
Teaching and learning methods
Theoretical lectures

Scientific discussions and seminars
Using screens (LCD)
Using illustrative means such as X-ray films and videos

Evaluation methods
Weekly exams
Mid-year and end-of-year exams
Evaluation of seminars prepared by the student
By evaluating the practical product

C- Emotional and value objectives
C1- The student's integration with the material and starting to think about finding solutions To deal with the obstacles they face while performing the work
Part 2-
Part 3-
Part 4-
Teaching and learning methods

Theoretical lectures
Scientific discussions and seminars
Using screens (LCD)
Using means of clarification such as X-ray films and video

Evaluation methods

Weekly exams
Mid-year and end-year exams Evaluation of seminars prepared by the student Evaluation of the practical product
D - General and transferable skills
Other skills related to employability and personal development.
D1-The instructor brings some models of advanced X-ray images that are not available within the institution and explains and displays them to the students for the purpose of keeping pace with the scientific progress in the field of oral and maxillofacial radiology

Course structure .10					
week	hour	**Theoretical content**	Unit name/topic	Teaching method	Evaluation method
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**1**	Physics of radioation(introduction and definitions of nature of radiation, type of radiation)	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**2**	Production of radiation(x-ray machine, interaction of x-ray with matter) composition of matter	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**3**	Film imaging (types of x-ray films, processing cycle,dark room, intensifying screen	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**4**	Factors controlling x-ray beam , dosimetry and invers square low	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**5**	Projection jeometry (sharpness, distortion, image characterstic and artifacts)	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**6**	Biological effects of radiatin (direct & indirect effects, determistic and stochastic effect)	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**7**	Safety and Protection (source of exposure , dose limits , exposure and risk and reducing dental exposure)	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power	Radiology	**8**	Intraoral projection (periapical, bitwing, and occlusal radiography)	**1**

	point				
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**9**	Digital radiography (strength , limitations , comparing with conventional radiography and indications	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**10**	Patient's management(mangement of pt.child, contrast media & localization technique	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**11**	Cephalometric imaging (technique, indications, evaluation of the image	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**12**	Panoramic radiography (principels, technique ,positin and interpretation)	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**13**	Craniofacial imaging (types , indication and interpretation)	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**14**	CBCT (principles, components, strength and limitations).	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**15**	CBCT (clinical applications in maxillofacial region, anatomy and interpretations).	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**16**	Radiographic anatomy part1 (teeth, supporting dentoalv structures, maxilla and mid facial bones)	
For short, semester,	Theoretic	Radiology	**17**	Raddigraphic anatomy part 2(mandible, Tmj,	

annual and final exams. For laboratory practical exams.	al lecture using power point			base of skull, air way,restorative materials)	
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Radiology	**18**	Advanced imaging modalities(CT, MRI AND ULTRASOUND)	
For short, semester, annual and final exams. For laboratory practical exams.	؛Theoretical lecture using power point	Radiology	**19**	Radiography &Implantology(modalities, indications)	
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Radiology		radiography (principals)	
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Radiology	**20**	Infection control(infection control in radiography clinic, protection of pt., protection of workers)	**1**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Radiology	21	Prescibing diagnostic imaging(radiologic examination and guide lines for ordering imaging)	**1**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Radiology	22	Radiographical interpretations of common diseases(interpretation of	**1**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Radiology	23	Cysts of the jaw(odontogenic and non odontogenic cysts)	**1**
Practical, semester, mid-year and final exams	Theoretical lecture using power	Radiology	24	Dental anomalies(acquired and developmental)	**1**

	point				
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Radiology	25	Inflammatory conditions of the jaws(periapical inf disease, osteomylitis, pericoronitis)	**1**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Radiology	26	Trauma(dento alveolar trauma , dental fructures and bone fructues	**1**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Radiology	27	TMJ abnormalities(anatomy of TMJ, application)	**1**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Radiology	28	Salivary gland disease (imaging modalities, interpretation)	**1**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Radiology	29	Craniofacial anomalies (Cleft lip and palat)	**1**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Radiology	30	Computed tomography(indications ,strength, limitations)	**1**
	Theoretical lecture using power point		**Total**		**30**

11. Infrastructure	
White and Pharoah's Oral radiology principles and interpretation. Sanjay Mallya and Ernest Lam. 8th edition. 2019, Elsevier. 2. Ghom, Anil Govindrao. Textbook of oral radiology-E-Book. 2016, Elsevier Health Sciences.	1- Required textbooks
	2- Main references (sources)

	A) Recommended books and references (scientific journals, reports....., (
موقع الكلية الالكتروني	B) Electronic references, Internet sites.....,

Clinical requirements

Number	Title of clinical requirements	Hours
1	Fundamentals of radiology:component of x- ray machine and production of X-ray	2
2	X-ray film (types and indication)	2
3	Intraoral techniques(periapical, bite-wing and occlusal films)	2
4	Idealradiograph	2
5	Land marks(maxilla, mandible)	2
6	Dental panoramic radiography(indication and anatomy)	2
7	CBCT (indication and anatomy)	2
8	Cephalometric (indication and anatomy)	2
9	Common disease (caries , PDL)	2
10	Cyst(odontogenic and nonodontogenic)	2
11	Clinical work	2
12	Clinical work	2
13	Clinical work	2
14	Clinical work	2
15	Clinical work	2
16	Clinical work	2
17	Clinical work	2
18	Clinical work	2
19	Clinical work	2
20	Clinical work	2
21	Clinical work	2
22	Clinical work	2
23	Clinical work	2
24	Clinical work	2
25	Clinical work	2
26	Clinical work	2
27	Clinical work	2
28	Clinical work	2
29	Clinical work	2
30	Clinical work	2
Total		60

Ministry of Higher Education and Scientific Research / University of Maysan	1. Educational Institution
College of Dentistry / Oral Diagnosis	2. Academic Department/Center
General Diseases	3. Course Name/Code

Weekly	4. Available Attendance Forms
Annual	5. Semester/Year
60 theoretical hours / 60 practical hours	6. Total Number of Study Hours
2023-2024	7. Date of Preparation of this Description

8. Course objectives: Qualifying dentists who are able to identify the important causes of various general diseases and study the diagnosis of various diseases and methods of using different dyes to identify these diseases and their causes

9. Learning outcomes and teaching, learning and evaluation methods

A- Cognitive objectives

A1- The ability to distinguish between various diseases

A2- How to use dyes

A3- Learning about histological sectioning

A4- A5- A6-

B- Course specific skill objectives B1- The ability to distinguish between various diseases

B2- How to use dyes

B3- Learning about histological sectioning

Teaching and learning methods

Theoretical lectures

Scientific discussions and seminars Using screens (LCD)

Using means of clarification such as X-ray films and video

Evaluation methods

Weekly exams

Mid-year and end-year exams Evaluation of seminars prepared by the student Evaluation of the practical product

C- Emotional and value objectives

C1- Identify On diseases and methods of diagnosing them microscopically using electron microscopy, stains and tissue sectioning. C2- C3- C4-

Teaching and learning methods

Theoretical lectures

Scientific discussions and seminars using screens (LCD)

Using means of clarification such as X-ray films and video

Evaluation methods

Weekly exams

Mid-year and end-year exams Evaluation of seminars prepared by the student Evaluation of the practical product

D- General and transferable skills Other skills related to

employability and personal development.

D1- The instructor brings some tissue sections and stains for rare diseases that cannot be found within the institution and explains and displays them to the students for the purpose of keeping pace with the scientific progress in the field of general diseases D2- D3- D4-

Course structure.10					
week	hour	**Theoretical content**	Unit name/topic	Teaching method	Evaluation method
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	2	Introduction to pathology Clinical pathology Molecular pathology Cell damage reversible cell injury	1.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	4	Irreversible cell injury Deposits and pigmentation External and internal pigmentation	2.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	4	Inflammation Acute inflammation Chronic pathology Chemical mediators	3.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	4	Healing and repair Healing of skin wound Healing of bone	4.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	4	Hemodynamic Disorders, Thromboembolic Disease, and Shock	5.

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	4	Genetic	6.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	4	Diseases of the Immune System Hypersensitivity Autoimmune diseases Transplantation	7.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	6	Neoplasia bengin and malignant tumors molecular basis of tumor	8.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	2	Infections Bacterial and viral infection	9.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	2	Environmental and Nutritional Diseases	10.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology		Blood Vessels	11.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	2	The Heart	12.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	2	Red Blood Cell and Bleeding Disorders	13.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	2	Diseases of White Blood Cells	14.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	2	Diseases of G.I.T	15.

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	2	Diseases of liver,	16.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	2	pancreas and gall bladder	17.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	2	Diseases of respiratory system	18.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	2	Bone diseases	19.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	2	Kidney	20.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	pathology	2	Urinary system	21.
			Total		60

11. البنية التحتية

Robbins basic pathology. Kumar, Abbas and Aster. 10th edition. 2018, Elsevier. 2. Stevens, Alan, James S. Lowe, and Ian Scott. Core pathology. 2008, Elsevier Health Sciences..	1- Required textbooks
	2- Main references Sources
	A (Recommended books and references) Scientific journals, reports....., (

College website	B) Electronic references, Internet sites.....,

No	*Laboratory sessions*	Hours
1	Introduction to general pathology and biopsy	2
2	Power points slides	2
3	Power points and histopathological slides demonstrating fatty changes in liver and cloudy swelling in kidney The gross appearence of reversible cell injury	2
4	Power points and histopathological slides of coagulative necrosis in heart muscles and caseous necrosis in lung With explanation of gross appearance	2
5	Power points and histopathological slides of anthracosis of lung and hemosiderosis in liver With explanation of gross appearance	2
6	Power points and histopathological slides of amyloidosis in kidney, H With explanation of gross appearence& E. and congo-red stain	2
7	Power points and histopathological slides of acute appendicitis (appendix),acute ossteomylitis and lobar pneumonia (lung ,)	2
8	Power points and histopathological slides of chronic cholecystits in gall bladder and With explanation of gross appearence osteomylitis in bone	2
9	Power points and histopathological slides of keloid in skin and granulation tissue	2
10	Power points and histopathological slides of TB in lung and actinomycosis With explanation of gross appearance	2
11	Power points and histopathological slides of Sarcoidosis With explanation of gross appearance	2
12	Power points slides of CVC in lung and liver With explanation of gross appearance	2
13	Power points slides of blood vessels thrombosis	2
14	Power points and histopathological slides of lipoma, S.C papilloma of skin With explanation of gross appearance	2
15	Power points and histopathological slides of osteoma of the bone	2
16	Power points and histopathological slides of S.C. carcinoma and adeno carcinoma of the colon With explanation of gross appearance	2
17	Power points and histopathological slides of thyrotoxicosis of thyroid and hashimotisis thyroiditis in thyroid With explanation of gross appearance	2
18	Data show slides	2
19	Data show slides	2

Ministry of Higher Education and Scientific Research	1. Educational Institution
Oral Diagnosis Branch	2. Academic Department/Center
Oral Surgery	3. Course Name/Code
Weekly	4. Available Attendance Forms
Two semesters/third stage	5. Semester/Year
30 theoretical hours and 60 practical hours	6. Total Number of Study Hours
2023-2024	7. Date of Preparation of this Description

8The course objectives are to prepare the student at a high level of scientific knowledge regarding oral surgery and to identify the surgical tools specific to his work in surgery in addition to acquiring knowledge of its types, local anesthesia and its methods, and the problems and complications.
9. Learning outcomes, teaching and learning methods and evaluation
A- Cognitive objectives
A1- Acquire basic knowledge about oral surgery.
A2- Identify the surgical instruments used in oral surgery and surgical methods
A3- Basic knowledge about local anesthesia and its methods
B- Course specific skill objectives
B1- Know the basics of oral diagnosis and surgical instruments
B2- Tooth extraction methods and dental surgery
B3- Learn different local anesthesia methods
Teaching and learning methods
Lectures using data show power point
(practical labs).

Course structure.10					
week	hour	**Theoretical content**	Unit name/topic	Teaching method	Evaluation method
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Diagnosis in oral surgery** ➢ History taking • Demographic data • Chief complaint • History of present complaint • Past dental and medical history • Social and family history)	1	1.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Diagnosis in oral surgery** ➢ Examination • Extra-oral examination • Intra-oral examination ➢ Differential diagnosis ➢ Diagnosis of pain, lump, and ulcer	1	2.

			➢ Consent		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Infection Control in Surgical Practice** ➢ Communicable pathogenic organisms ➢ Aseptic techniques • Terminology • Concepts • Techniques of Instrument Sterilization; Sterilization with Heat; Sterilization with Gas • Techniques of Instrument Disinfection	1	3.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Infection Control in Surgical Practice** • Maintenance of Sterility • Surgical Field Maintenance • Operatory Disinfection • Surgical Staff Preparation • Postsurgical Asepsis	1	4.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Extraction of teeth and Contra indications of extraction** • 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. ✓ 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.	1	5.
For short, semester, annual	Theoretical lecture using	Oral-surgery	**Extraction of teeth and Contra indications of extraction** • Contra-indications of teeth	1	6.

and final exams. For laboratory practical exams.	power point		extraction. ➢ Local contra-indications. ➢ Systemic contra-indications. • Pre-extraction evaluation. ➢ Clinical preoperative evaluation. ✓General evaluation. ✓Local evaluation. ➢ Radiological evaluation. ➢ Objectives and benefits		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**General arrangement for extraction and Dental forceps** **(types)** • Light. • Position of the operator. • Position of the patient. • Height of the dental chair. • Parts of dental forceps. • Forceps for the maxillary teeth. ✓ Forceps of upper anterior teeth. ✓ Forceps of upper premolars. ✓ Forceps of upper molars. ✓ Bayonet of upper posterior teeth.	1	7.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**General arrangement for extraction and Dental forceps** **(types)** • Forceps for the mandibular teeth. ✓ Forceps of lower anterior teeth. ✓ Forceps of lower premolars. ✓ Forceps of lower molars. ✓ Bayonet of lower posterior teeth. • Mechanical principle of forceps (traditional) extraction. Physic forceps. ✓ Parts. ✓ Mechanical principle and technique	1	8.
For short, semester, annual and final exams. For laboratory practical	Theoretical lecture using power point	Oral-surgery	**Techniques of forceps extraction and post-operative instructions** • Soft tissue retraction. • Handling of the forceps. • Cheek retraction and support (the use of the non-working	1	9.

exams.			hand). • The application of the forceps 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.		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Elevators** • Line of withdrawal. • Point of application. • Parts of dental elevators. • Mechanical principles of using dental elevators. • Wheel and axil. • Fulcrum. • Wedging. • Combination of mechanical principles.	1	10.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Elevators** • Clinical uses of elevators. • Straight elevators. • Coupland's chisel. • Cryer's elevator. • Winter's elevator. • Apexo elevator. • Warwick-James elevator. • Guiding principles for using dental elevators. • Complications of using dental elevators.	1	11.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Complications of dental extraction** • Failure to secure anesthesia. • Failure to remove the tooth with either forceps or elevator. • Fracture (#) of crowns and roots, alveolar bone, maxillary tuberosity, 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	1	12.

			and the maxillary antrum.		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Complications of dental extraction** Excessive bleeding after extraction. • Damage to the surrounding soft tissues. • Post -operative pain. • Post-operative swelling. • Creation of an oro-anrtal communication. • Trismus.	1	13.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Basic surgical instruments** • Instruments of basic oral surgery. • Instruments to incise tissues. • Instruments for elevating mucoperiosteum. • Instruments for controlling hemorrhage. ✓ Hemostat (artery forceps). • Instruments to grasp tissues. ✓ Toothed-tissue forceps. ✓ 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	1	14.

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Introduction to local anesthesia** • Neurophysiology • Mode and site of action of local anesthetic • Active forms of local anesthetics	1	15.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Pharmacology of local anesthesia** • Pharmacokinetics of local anesthetics • Metabolism • Systemic actions of local anesthetics	1	16.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Pharmacology of local anesthesia** • Vasoconstrictors • Mode of action • Dilutions of vasoconstrictors • Specific agents	1	17.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Surgical anatomy in local anesthesia** Trigeminal nerve: • ✓ Ophthalmic branch ✓ Maxillary branch ✓ Mandibular branch	1	18.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Surgical anatomy in local anesthesia** Osteology of the maxilla • Osteology of the mandible •	1	19.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Instruments of local anesthesia** The Syringe • The Needle • The Cartridge • Additional Armamentarium • Preparation of the Armamentarium •	1	20.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Techniques of local anesthesia** Basic injection techniques • Techniques of maxillary anesthesia • ✓ Local infiltration. ✓ Posterior superior alveolar nerve block ✓ Middle superior alveolar nerve block ✓ Anterior superior alveolar	1	21.

			nerve block (infraorbital nerveblock) ✓ Greater palatine nerve block ✓ Nasopalatine nerve block ✓ Maxillary nerve block		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Techniques of local anesthesia** • Techniques of local anesthesia ✓ 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	1	22.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Techniques of local anesthesia** • Supplemental injection techniques ✓ Intraosseous injection ✓ Periodontal ligament injection ✓ Intraseptal injection ✓ Intrapulpal injection	1	23.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Complications of local anesthesia** • Local Complications ✓ Needle breakage ✓ Prolonged anesthesia (paresthesia) ✓ Facial nerve paralysis ✓ Ocular complications ✓ Trismus ✓ Soft tissue injury ✓ Hematoma	1	24.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Complications of local anesthesia** ✓ Pain on injection ✓ Burning on injection ✓ Infection ✓ Edema ✓ Sloughing of tissues ✓ Postanesthetic intraoral lesions	1	25.
For short, semester, annual	Theoretical lecture using	Oral-surgery	**Complications of local anesthesia** • Systemic complications	1	26.

and final exams. For laboratory practical exams.	power point		✓ Overdose ✓ Allergy		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Advances in local anesthesia** • Computer controlled local anesthetic delivery • Articaine hydrochloride • Local anesthesia reversal • Buffering of local anesthetic solution • Nasal local anesthetic mist for maxillary nonmolar teeth	1	27.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Conscious sedation** • Sedation techniques: Oral, sublingual, transdermal, intranasal, intramuscular, intravenous and inhalational • Nitrous oxide • Complications and medicolegal considerations	1	28.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Fundamentals of general anesthesia** • Types of general anesthesia used in dentistry • Advantages • Disadvantages • Indications • Contraindications	1	29.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	**Medical emergencies during dental treatment** • Overview of medical emergencies • Basic measures, equipment and drugs • Common emergencies ✓ Collapse ✓ Anaphylaxis ✓ Cardiac arrest ✓ Diabetic collapse due to Theoretical lecture using powerpoint hypoglycemia ✓ Fits and convulsions ✓ Adrenal crisis ✓ Acute severe asthma ✓ Chest pain	1	30.

			TOTAL		30

	1. Infrastructure
Hand book of local anesthesia 7th edition Stanely F. Malamed , Elsevier.2019 2. Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier)	1- Required textbooks
	2- Main references (sources)

	Laboratory sessions & *Clinical requirements*	
	• History taking: Includes patient communication skills, chief complaint, past dental history, medical history and family history, risk assessment associated with common medical conditions with regards to dental extraction. • Clinical examination and diagnosis: Components of clinical examination with demonstration of extra oral and intra oral examination (lymph node palpation, TMJ palpation with the focus on the accused tooth/teeth), diagnosis of cases in patients case sheet with regards to dental extraction • Basic surgical instruments I: Instrument to incise tissue, instrument for control of hemorrhage, instrument for grasping tissues, instruments for reflection of mucoperiosteal flap, instrument for cutting the bone • Basic surgical instruments II: Instruments of retracting the cheek and mucosa, instruments of suturing, types of suture materials, types of suturing needles, instrument for suction, instruments of irrigation, instruments of patient draping and cable management. • Dental forceps I: Indication of using dental forceps, part of a dental forceps, forceps of maxillary teeth. • Dental forceps II: Forceps of mandibular teeth, physics forceps. • Dental elevators I: Indications, mechanical principles of using elevators, straight elevators, Coupland chisel, Winters elevator • Dental elevators II: Cryers elevator, apixo elevator, Warwick-James elevator, periotomes, guiding principles of using dental elevators. • Local anesthetics (instruments & materials). Demonstartion of local anesthetic dental syringe, dental injection needles, types of different local anesthetics, topical measures of injection pain reduction, automized injectors • Maxillary injection techniques: Hands on demonstration on special manikin of Infiltration of upper anterior teeth, infiltration of premolars and molars, nerve block of long sphenopalatine and greater palatine nerves, periodontal ligament injection. • Mandibular injection techniques. Hands on demonstration on special manikin of infiltration injections, and inferior alveolar nerve block, long buccal nerve block and mental nerve block, periodontal ligament injection and intra-bony injections. • Maxillary teeth extraction: Hand on demonstration on manikin of maxillary teeth extraction with dental forceps.	

	• Mandibular teeth extraction: Hands on demonstration on manikin of mandibular teeth extraction with dental forceps. • Basic life support and CPR: Demonstration of how to perform emergency evaluation of fainted patients (A,B,C,D,& E), administration of oxygen, establishing IV line, IM injection, Heimlich maneuver, and cardiopulmonary resuscitation.	

Fourth stage

Ministry of Higher Education and Scientific Research / University of Maysan	1. Educational Institution
College of Dentistry / Oral Diagnosis Department	2. Academic Department/Center
Internal Medicine	3. Course Name/Code
Weekly	4. Available Attendance Forms
Two semesters / Fourth stage	5. Semester/Year
30 theoretical hours	6. Total Number of Study Hours
2023-2024	7. Date of Preparation of this Description

Course structure .10					
Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours	week
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Diabetes Mellitus 1	1	1.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Diabetes Mellitus 2	1	2.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	White Blood Cells Disorders 1	1	3.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	White Blood Cells Disorders 2	1	4.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Hemostasis and Bleeding Disorders 1	1	5.
For short, semester, annual and final exams. For laboratory practical	Theoretical lecture using power point	General Medicine	Hemostasis and Bleeding Disorders 2	1	6.

exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Adrenal Gland Disorders 1	1	7.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Adrenal Gland Disorders 2	1	8.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Gastrointestinal Diseases	1	9.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Peptic Ulcer Disease 1	1	10.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Peptic Ulcer Disease 2	1	11.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Intestine	1	12.
For short,	Theoretical	General Medicine	Inflammatory Bowel Disease 1	1	13.

semester, annual and final exams. For laboratory practical exams.	lecture using power point				
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Inflammatory Bowel Disease 2	1	14.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Pseudomembranous Colitis	1	15.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Hypertension	1	16.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Infective Endocarditis	1	17.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Ischemic Heart Disease	1	18.
For short, semester, annual and final exams.	Theoretical lecture using power point	General Medicine	Heart Failure	1	19.

For laboratory practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Cardiac Arrhythmias	1	20.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Thyroid Diseases	1	21.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Kidney Diseases	1	22.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Immunologic Diseases	1	23.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Liver Diseases	1	24.
For short, semester, annual and final exams. For laboratory practical	Theoretical lecture using power point	General Medicine	Pulmonary Diseases	1	25.

exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Red Blood Cells Disorders	1	26.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Drug and Alcohol Abuse	1	27.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Psychiatric Disorders	1	28.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Medicine	Anxiety and Eating Disorders	1	29.
			Neurologic Disorders	1	

11.البنية التحتية	
Dental Management of the Medically Compromised Patient, Ninth Edition, 2018	1. Required textbooks
	2. Main references (sources)
Reports published on the college website	A) Recommended books and references (scientific journals, reports.....,)
College website	B) Electronic references, Internet

	sites....

12. Curriculum development plan
- Developing the curriculum content by deleting, adding and replacing.

Ministry of Higher Education and Scientific Research / University of Maysan 1. Educational Institution	

Faculty of Dentistry / Oral Diagnosis Department	2. Academic Department/Center
General Surgery	3. Course Name/Code
Weekly	4. Available Attendance Forms
Two semesters / Fourth stage	5. Semester/Year
30 theoretical hours	6. Total Number of Study Hours
2023-2024	7. Date of Preparation of this Description

Course structure.10					
Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours	week
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Metabolic response to injury BASIC CONCEPTS IN HOMEOSTASIS MEDIATORS OF THE METABOLIC RESPONSE TO INJURY Physiological ((response to injury ((THE 'EBB AND FLOW' MODEL Insulin resistance AVOIDABLE FACTORS THAT COMPOUND THE RESPONSE TO INJURY Systemic inflammation and tissue response	2	1.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Wound healing Introduction Classification of wound Healing Normal sequence of wound Healing Factors affecting healing (local & systemic) Complications of wound healing	2	2.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Surgical wound infections Surgical sepsis Types of wounds Infecting organisms (Exogenous organisms, Endogenous organisms) Prevention of wound Infections Clinical features of wound Sepsis Diagnosis of wound sepsis Treatment	2	3.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	2 Hemorrhage Introduction Pathophysiology Definitions (Revealed and concealed hemorrhage, Primary, reactionary and secondary hemorrhage (Surgical and non- surgical hemorrhage Degree and classification Management (Identify hemorrhage, Immediate resuscitative maneuvers, Identify the site of hemorrhage, Hemorrhage control) Damage control surgery	2	4.
For short, semester, annual and final	Theoretical lecture using	General Surgery	Shock Introduction Pathophysiology *Ischemia–reperfusion syndrome* Classification of shock Consequences *Unresuscitatable shock Multiple organ failure* RESUSCITATION	2	5.

exams. For laboratory practical exams.	power point		Fluid therapy *Monitoring* *End points of resuscitation*		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Blood transfusion Introduction Blood and blood products Indications for blood transfusion Blood groups and cross-matching Transfusion reactions Cross-matching Complications of blood transfusion Management of coagulopathy	2	6.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Parenteral feeding Introduction Route of delivery Peripheral central venous access Complications of parenteral nutrition Refeeding syndrome	2	7.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Fluid balance Abnormalities of body water Fluid overload and oedema Abnormalities of electrolytes Fluid replacement Acid-base balance Abnormalities of acid-base balance	2	8.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Electrolytes balance Introduction Principles of electrolyte balance Normal homeostasis Barriers between compartments, osmolality and electrolyte concentrations Homeostatic mechanisms	2	9.
For short, semester, annual and final	Theoretical lecture using	General Surgery	Head injury Introduction Cerebral blood flow Initial evaluation and management	2	10.

exams. For laboratory practical exams.	power point		Mechanism Neurological progression Examination: primary survey Glasgow Coma Score secondary survey CLASSIFICATION OF SEVERITY TYPE OF HEAD INJURY		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Preoperative preparation (History Taking) Introduction to the Patient History of the presenting Complaint Relevant medical history Family history Drug therapy Social history Allergies Common surgical symptoms Terms used in General Surgery and History Taking	1	11.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Anesthesia & Pain HISTORY GENERAL ANAESTHESIA Management of airway during Anesthesia Complications of intubation Ventilation during anesthesia Monitoring and care during anesthesia Chronic pain management Chronic pain control in benign disease Pain control in malignant disease	1	12.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Perioperative care Introduction Factors that predispose patients to a high risk of morbidity and mortality Patient factors Surgical factors Optimize medical management of coexisting diseases and intraoperative considerations Ischemic heart disease Respiratory failure SPECIFIC Strategies	2	13.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Postoperative care SYSTEM-SPECIFIC POSTOPERATIVE COMPLICATIONS Respiratory complications Cardiovascular complications Renal and urinary complications COMPLICATIONS RELATED TO SPECIFIC SURGICAL SPECIALTIES Paralytic ileus Compartment syndrome Neck surgery Neurosurgery	1	14.
For short, semester, annual and final	Theoretical lecture using	General Surgery	GENERAL POSTOPERATIVE PROBLEMS AND MANAGEMENT Nausea and vomiting Bleeding Deep vein thrombosis Hypothermia and shivering Fever	2	15.

exams. For laboratory practical exams.	power point		Pressure sores Drains Wound care Wound dehiscence DISCHARGE OF PATIENTS		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Day case surgery Definition SELECTION CRITERIA PREOPERATIVE ASSESSMENT SURGERY DISCHARGE	1	16.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Surgical ethics and law INTRODUCTION INFORMED CONSENT MATTERS OF LIFE AND DEATH CONFIDENTIALITY RESEARCH	1	17.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery	Patient safety INTRODUCTION THE PREVALENCE OF ADVERSE HEALTHCARE EVENTS COMMON CAUSES OF ADVERSE HEALTHCARE EVENTS PATIENT SAFETY AND THE SURGEON CARING FOR THE SECOND VICTIM	1	18.
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	General Surgery		1	19.
TOTAL					30

	1. Infrastructure
Baily and Love's short practice of surgery 27th edition 2018 .	1. Required textbooks
	2. Main references Sources
Reports published on the college website	a. Recommended books and references (scientific journals, reports.....,)
College website	b. Electronic references, websites...

Ministry of Higher Education and Scientific Research / University of Maysan	1. Educational Institution
College of Dentistry / Oral Diagnosis Department	2. Academic Department/Center
Oral Surgery	3. Course Name/Code
Weekly	4. Available Attendance Forms
Two semesters / Fourth stage	5. Semester/Year
30 theoretical hours 120 practical hours	6. Total Number of Study Hours
2024-2023	7. Date of Preparation of this Description
. Course objectives: Preparing the student at a high level of scientific knowledge regarding oral surgery and identifying the dental management of patients with chronic and infectious diseases, in addition to minor surgical interventions of the mouth, inflammations and infections of the mouth, face and jaws.	

9. Learning outcomes, teaching and learning methods and evaluation
A- Cognitive objectives
A1- Acquiring basic knowledge about oral surgery.
A2- Dental management of patients with chronic and infectious diseases
A3- Basic knowledge about minor surgical interventions
A4- Dealing with infections of the mouth, face and jaws.
A5- A6-

B - Course specific skill objectives B1 - Knowing the basics of oral diagnosis
B2 - Dealing with patients with chronic and infectious diseases
B3 - Training on tooth extraction B4-
Teaching and learning methods
Lectures using data show (power point) dental extraction clinics
Preparing seminars by students under the supervision of professors.

Course structure .10					
Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours week	Evaluation method
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Cardiovascular diseases Hypertension Dental management Oral Manifestations Ischemic heart diseases Angina pectoris Myocardial infarction ((MI Dental management Heart failure Dental management Oral manifestations	1	1
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Bleeding disorder Dental management of the patient with bleeding disorder: Hemophilia Von Willebrand's disease Thrombocytopenia Blood dyscrasias Disorders of the RBCs Anemia and polycythemia Dental management WBCs Disorders Leukemia, Lymphoma, Burkitt's Lymphoma and Multiple Myloma	3	2

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Endocrinology Thyroid diseases Dental management of hyper- and hypothyroidism Oral complications and manifestations Adrenal insufficiency Dental management of Adrenocortical insufficiency and adrenal crisis Dental management of Adrenocortical hyperfunction Oral complications and manifestations Diabetes Mellitus Dental management of the patient with diabetes mellitus	2	4
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Pulmonary diseases Chronic obstructive pulmonary diseases (COPD(Dental management Oral complications and manifestations Asthma Dental management Management of asthmatic attack Oral complications and manifestations Tuberculosis Dental management Oral complications and manifestation	1	5
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Liver Diseases Viral hepatitis Dental management Oral manifestations and complications Alcoholic liver disease Dental management Oral complications and manifestations	1	6
For short,	Theoretical	Oral-surgery	Chronic kidney disease and dialysis • Chronic kidney	1	7

semester, annual and final exams. For laboratory practical exams.	lecture using power point		disease • Dental management ⏐ Patients receiving conservative care ⏐ Dialysis ⏐ Renal transplant • Oral complications and manifestations		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Neurologic disorders ¬ Epilepsy • Dental management • Oral complications and manifestations ¬ Cerebrovascular accidents (stroke) • Medical management • Dental management	1	8
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Pregnancy • Dental management • Medical considerations ⏐ Treatment timing 1 105 ⏐ Dentalradiographs ⏐ Drugs in pregnancy • Oral manifestations and complications	1	9
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	AIDS and HIV infection • Oral manifestations • Dental managements: ⏐ Asymptomatic patient. ⏐ Symptomatic patient. ⏐ Patient with severe symptoms	1	10
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Rheumatologic and connective tissue disorders • Rheumatoid arthritis ⏐ Dental management ⏐ Oral manifestations and complications • Dental management of patients with prosthetic joint	1	11
For short, semester, annual and final exams. For	Theoretical lecture using power point	Oral-surgery	Allergy • Dental management • Oral complications and manifestations	1	12

laboratory practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Patients on radiotherapy and chemotherapy • Patients on radiotherapy 〕Radiation effects on normal tissues in the path of the external beam 〕Dental Management • Patients on chemotherapy 〕The effect of chemotherapy on normal tissues 〕Dental management	1	13
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Odontogenic infections and fascial space infections • Odontogenic Infections • Spread of odontogenic infections • The factors that influence the spread of odontogenic infections	1	14
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	• Fascialspace infections • Infection of spaces in relation to the lower jaw • Infections of spaces in relation to the upper jaw • Cavernous sinus thrombosis	1	15
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	• Principles of treatment of odontogenic infections • Principles for the use of appropriate antibiotics • Sinus formation • Necrotizing fasciitis	1	16
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Principles of Flaps, suturing and management of difficult extraction ¬ Flaps in oral cavity • Incision • Flap design • Types of Mucoperiosteal Flaps • Flap reflection ¬ Suturing • Suture Materials • Needles • Needle Holder • Tissue Forceps 1 106 • Suture Scissor • Principles of suturing • Suturing Techniques	1	17

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Management of difficult extraction • The main indications for surgical extraction of teeth are • Steps ofsurgical extraction • Indications for leaving root fragments • Multiple Extractions • Extraction sequencing	2	18
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Principles of management of impacted teeth • Definition and stages of eruption • Impacted lower third molars ⏐ Indications for removal of impacted lower third molars ⏐ Classification of impacted lower third molars ⏐ Clinical examination ⏐ Radiographic examination and assessment ⏐ Surgical extraction of lower third molar ⏐ Complications ⏐ Other lines of treatment	2	19
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Impacted upper third molars ⏐ Surgical extraction ⏐ Complications • Impacted maxillary canine ⏐ Classification ⏐ Clinical examination ⏐ Radiographic examination and assessment ⏐ Options of treatment	1	20
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Impacted mandibular canines • Impacted lower premolars • Impacted maxillary premolars • Impacted first and second molars • Buried deciduous molars • Supernumerary teeth • Dilacerated incisors	1	21
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Surgical aids to orthodontics • Corticotomy assisted orthodontic treatment and labial • Labial frenectomy. • Temporary skeletal anchorage	1	22
For short, semester, annual and	Theoretical lecture using	Oral-surgery	Principles of endodontic surgery • Definition • Indications for periapical surgery • Contraindications for	1	23

final exams. For laboratory practical exams.	power point		periapical surgery • Important considerations in periapical surgery • Factors Associated with Success and Failures in Periapical Surgery		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Surgical procedure • To perform biopsy or not 1 107 • Determination ofsuccess • Microsurgical technique	1	24
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Osteomyelitis and osteonecrosis of the jaw ¬ Osteomyelitis • Definition. • Classification • Etiology and pathogenesis • Clinical presentation • Diagnostic imaging • Microbiology • Treatment: surgical, antimicrobial and hyperbaric oxygen • Other types of osteomyelitis: infantile, focal and diffuse sclerosing and Garre's sclerosing osteomyelitis	1	25
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Radiation induced osteomyelitis and osteoradionecrosis • Definition • Etiology • Stages • Treatment • Prevention ¬ Medication related osteonecrosis of the jaw • Definition • Pathophysiology • Clinical presentation and staging • Imaging • Treatment • Prevention	1	26
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Dental Implants: Basic Concepts and Techniques • Implant Geometry (Macrodesign) • Implant Surface Characteristics (Microdesign) • Hard Tissue Interface • Soft Tissue–Implant Interface • Biomechanical Considerations • Preoperative Assessment and Treatment Planning (hard tissue evaluation, soft tissue evaluation, radiographic examination)	1	27
For short, semester,	Theoretical lecture using	Oral-surgery	Surgical Treatment Planning Considerations • Final Treatment Planning • Basic	1	28

annual and final exams. For laboratory practical exams.	power point		Implant Surgical Procedures • One-Stage versus Two-Stage Implant Placement Surgery • Implant Stability • Complications • Implant Components • Defining implant outcomes		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Biopsy in oral and maxillofacial surgery • Medical History • History of the lesion • Examination • Differential Diagnosis 1 108 • Biopsy Principles • Contraindication • Excisional Biopsy • Incisional Biopsy • Surgical technique	1	29
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral-surgery	Diagnostic imaging in oral and maxillofacial surgery • Classification: Invasive and Non-invasive • Types of non-invasive imaging • Conventional radiography (Plain x-ray) • Ultrasonography (USG): • Computed tomography scanning (CT scan): Spiral CT, Cone Beam CT (CBCT) • Magnetic resonance imaging (MRI) • MRI vs. CT scan • Radionuclide (scintigraphy or skeletal scan) • Positron emission tomography (PET) Scan • PET-CT • Single Photon Emission Computed Tomography (SPECT) scan	1	30

11. Infrastructure	
Dental Management of the Medically Compromised Patient, Ninth Edition, 2018 2. Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier)	1. Required textbooks
	2. Main references (sources)
تقارير المنشورة في موقع الكلية	a. Recommended books and references (scientific journals, reports.....,)
موقع الكلية الالكتروني	b. Electronic references, websites.....,)

Clinical requirement

Clinical requirement	
- Extraction of simple cases - Seminars of oral surgery	4 Hours/ week 120 Hours/ Year

Ministry of Higher Education and Scientific Research / University of Maysan	1 Educational institution
College of Dentistry / Oral Diagnosis	
	2 Academic department/center
Oral Diseases	
Weekly	3 Course name/code
Two Semesters / Fourth Stage	
60 Theoretical Hours 90 / Practical Hours	4 Available forms of attendance

Course structure .10					
Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours	week
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Biopsy in oral pathology	2	1
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Healing in oral pathology	2	1
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Dental Caries	2	2
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Pulpitis	2	3
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Periapical lesions	2	4
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Osteomyelitis	2	5
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Developmental disorder of teeth	2	6 7
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Developmental disorder of soft and hard tissue	2	8 9
For short, semester,	Theoretical lecture	Oral pathology	Non odontogenic cysts Odontogenic tumors	2	10

annual and final exams. For laboratory practical exams.	using power point		1 Odontogenic cysts		11 12
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Benign epithelial lesions, leukoplakia	2	13
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Epithelial Hyperplasia, atrophy and dysplasia	2	14
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Squamous cell carcinoma and other malignant epithelial neoplasmsFibro osseous lesions, metabolic and genetic conditions	2	15 16
امتحانات قصرية	محاضرات POWER	Oral pathology	Giant cell lesions		17
ونصف السنه وفصلية بسمنارات	POINT	Oral patholog	Benign tumor of the bone	2	
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology		2	18
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Malignant tumor of the bone Viral infection	2	19 20
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Bacterial and fungal infection	2	21
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Immune mediated disorder 1	2	22
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Immune mediated disorder 2	2	23

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Connective Connective tissue lesions tissue lesions	2	24 25
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Salivary gland disorders	2	26
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Salivary gland neoplasms 2 28 Physical and chemical injuries	2	27 28
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Hematopoietic tumors	2	29
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Oral pathology	Forensic dentistry	2	30

Laboratory sessions

Lab number	Study unit title	Hours
1	Data show and demonstration of biopsy processing	3
2	Data show about Healing in oral pathology	3
3	Acute and chronic dental caries	3
4	Acute pulpitis, chronic pulpitis and pulp polyp	3
5	Periapical granuloma, cyst and abscess	3
6	Acute and chronic osteomyelitis and squestrum	3
7	Data show about developmental disorder of teeth	3
8	Data show about developmental disorder of soft tissue	3
9	Data show about non odontogenic cysts	3
10	Dentigerous cyst, kertatocyst ,calcifying odontogentic cyst and eruption cyst	3
11	Ameloblastoma,adenomatoid odontogenic tumor and odontoma	3
12	Ameloblastic fibroma odontoma	3
13	Leukoplakia, squamous cell papilloma	3
14	Epithelial dysplasia	3
15	Squamous cell carcinoma	3
16	Fibro dysplasia, ossifying fibroma	3
17	Giant cell lesions ,central and peripheral giant cell granuloma	3
18	Osteoma	3
19	Osteosarcoma	3
20	Data show about viral infections	3
21	Data show about bacterial and fungal infection	3
22	Lichen planus	3
23	Pemphigus vulgaris	3
24	Fibroma, and pyogenic granuloma	3
25	Hemangioma, and lymphangioma	3
26	Mucocele and data show	3
27	Pleomorphic adenoma and mucoepidermoid carcinoma	3
28	Data show physical and chemical injuries	3
29	Hematological neoplasms	3
30	Data show about forensic dentistry	3
Total		**90**

البنية التحتية11.	
Oral and maxillofacial pathology. Brad Neville, Douglas Damm Carl Allen and Jerry Bouquot. 4 th edition. 2016, Elsevier.	For required textbooks

Laboratory sessions

Lab number	Study unit title	Hours
1	Data show and demonstration of biopsy processing	3
2	Data show about Healing in oral pathology	3
3	Acute and chronic dental caries	3
4	Acute pulpitis, chronic pulpitis and pulp polyp	3
5	Periapical granuloma, cyst and abscess	3
6	Acute and chronic osteomyelitis and squestrum	3
7	Data show about developmental disorder of teeth	3
8	Data show about developmental disorder of soft tissue	3
9	Data show about non odontogenic cysts	3
10	Dentigerous cyst, kertatocyst ,calcifying odontogentic cyst and eruption cyst	3
11	Ameloblastoma,adenomatoid odontogenic tumor and odontoma	3
12	Ameloblastic fibroma odontoma	3
13	Leukoplakia, squamous cell papilloma	3
14	Epithelial dysplasia	3
15	Squamous cell carcinoma	3
16	Fibro dysplasia, ossifying fibroma	3
17	Giant cell lesions ,central and peripheral giant cell granuloma	3
18	Osteoma	3
19	Osteosarcoma	3
20	Data show about viral infections	3
21	Data show about bacterial and fungal infection	3
22	Lichen planus	3
23	Pemphigus vulgaris	3
24	Fibroma, and pyogenic granuloma	3
25	Hemangioma, and lymphangioma	3
26	Mucocele and data show	3
27	Pleomorphic adenoma and mucoepidermoid carcinoma	3
28	Data show physical and chemical injuries	3
29	Hematological neoplasms	3
30	Data show about forensic dentistry	3
Total		**90**

Ministry of Higher Education and Scientific Research / University of Maysan	1 Educational institution
College of Dentistry / Orthodontics Department	
Gum Diseases	2 Academic department/center
Weekly	
Two Semesters / Fourth Stage	3 Course name/code
90 ساعة عملي و30 ساعة نظري	6. عدد الساعات الدراسية)الكلي(
2024-2023	7. تاريخ إعداد هذا الوصف

Course structure .10					
Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours	week
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Terms& definitions frequently used in periodontology**	periodontics	**1**	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Anatomy of the periodontium** Oral mucosa -Gingiva o Macroscopic features: i- Marginal gingiva ii- Attached gingiva iii- Interdental papilla o Microscopic features: i- Oral epithelium ii- Sulcular epithelium iii- Junctional epithelium iv- Epithelial connective tissue interface v- Gingival connective tissue (gingival fibers and cellular elements) o Gingival sulcus and gingival crevicular fluid o Blood Supply, Lymphatics, and Nerves o Clinical features of gingiva in health and disease: i- Color • Physiologic pigmentation ii- Size iii- Contour iv- Shape v- Consistency vi- Texture vii- Position	periodontics	**2**	**2**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Anatomy of the periodontium - Periodontal ligaments (PDL) o Cellular elements o Ground substance o Development of principal fibers of PDL o Functions of periodontal ligaments: i- Physical functions ii- Formative and Remodeling Function iii- Nutritional and sensory functions o Clinical consideration**	periodontics	**2**	**4**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Anatomy ofthe periodontium -Cementum o Definition o Function of cementum o Classification of cementum: i- Acellular afibrillar cementum ii- Acellular extrinsic fiber cementum iii- Cellular mixed stratified cementum iv- Cellular intrinsic fiber cementum o Development and mineralization of cementum o Cementoenamel junction o Cementodentinal junction o Thickness of Cementum in response to physiologic and pathologic conditions i- Normal thicknessiii- Hypercementosis iv- Ankylosis v- neoplastic and nonneoplastic ii- Cemental aplasia A**	periodontics	**1**	**6**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Anatomy ofthe periodontium - Alveolar process o Definition o Function of alveolar process o Parts ofthe alveolar process i- Alveolar bone proper ii- An external plate of cortical bone iii- Cancellous trabeculae or spongy bone o Basal bone o Anatomic division of the alveolar process i- Interproximal bone ii- Inter radicular bone iii- Radicular**	periodontics	**1**	**7**

		bone o Composition ofthe bone i- Cellular elements ii- Organic components iii- Inorganic components o Haversian system or Osteon o Periosteum and Endosteum o Remodeling of alveolar bone			
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Classification of periodontal diseases and conditions (2017) - Reasons for classification - Major changes from previous classification - Periodontal health and gingival diseases and conditions Periodontal health and gingival health: o Clinical gingival health on an intact periodontium o Clinical gingival health on a reduced periodontium: i- Stable periodontitis ii- Non-periodontitis patients The classification of dental biofilm induced gingivitis: o Associated with bacterial dental biofilm only o Mediated by systemic or local risk factors i- Systemic conditions ii- Oral factors enhancing plaque accumulation o Drug-influenced gingival enlargements Case definition of gingivitis: o Gingivitis on an intact periodontium o Gingivitis on a reduced periodontium Non-dental biofilm induced gingival disease: o Genetic/developmental disorders o Specific infections o Inflammatory and immune conditions and lesions o Reactive processes o Neoplasms o Endocrine, nutritional, and metabolic diseases**	periodontics.p	**2**	**8**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Classification of periodontal diseases and conditions (2017) - Periodontitis o Periodontitis (Extent, Staging, Grading, Status, Risk factors) o Necrotizing periodontal diseases: i- Necrotizing gingivitis ii- Necrotizing periodontitis iii- Necrotizing Stomatitis) o Periodontitis as a manifestation of systemic disease - Peri-implant disease and conditions: § o Peri- implant health o Peri-implant mucositis o Peri-implantitis o Peri-implant soft and hard tissues deficiency**	periodontics.p	**2**	**10**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Microbiologic specificity of periodontal diseases - Traditional nonspecific plaque hypothesis - Specific plaque hypothesis - Updated nonspecific plaque hypothesis - Ecologic plaque hypothesis - Keystone Pathogen Hypothesi**	periodontics.p	**2**	**11**

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Dental calculus - Clinical appearance and distribution (Supragingival and Subgingival Calculus) - Calculus formation: o Theories of calculus formation - Calculus composition: o Inorganic content o Organic content - Attachment to tooth surfaces and implants - Clinicalsignificance**	periodontics;p	**2**	**12**
	Theoretical lecture using power point	باستخدام برنامج power point	periodontics;p		**13**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Etiology of periodontal disease - Risk factors for periodontal diseases: o Definitions of risk factors 1 118 o Systemic risk factors: i- Modifiable risk factors ii- Non-modifiable risk factors o Local predisposing factors: i- Calculus ii- Iatrogenic factors iii- Margins of restorations iv- Malocclusion v- Associated with orthodontic therapy o Local anatomic risk factors	periodontics;p		14
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Etiology of periodontal disease - Molecular biology of host–microbe interactions o Microbe-associated molecular patterns o Toll-like receptors: i- Toll-like receptor-4–lipopolysaccharide recognition ii- Toll-like receptor-2–lipoprotein/lipoteichoic acid/peptidoglycan recognition iii- Role of toll-like receptors in periodontitis o Complement system: i- Classical/Lectin/Alternative pathways ii- Role of complement in periodontitis 1 16 Etiology of periodontal disease and risk factors - Smoking and Periodontal Disease o Effects of smoking on the prevalence and severity of periodontal diseases: i- Gingivitis ii- Periodontitis o Effects of smoking on the etiology and pathogenesis of periodontal disease: i- Microbiology ii- Immune–inflammatory responses iii- Physiology o Effects of smoking on the response to periodontal therapy: i- Nonsurgical Therapy ii-Surgical Therapy and Implants iii- Maintenance**	periodontics;p	1	***15*** 16

		Therapy o Effects of smoking cessation on periodontal treatment outcomes			
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point		periodontics;p	1	17
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Impact of periodontal infection on systemic health - Periodontal disease and asthma 1 119 - Periodontal disease and pregnancy outcome - Periodontal disease and chronic obstructive pulmonary disease - Periodontal disease and acute respiratory infection**	periodontics;p	1	18
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Periodontal indices o Definition o Gingival index (Loe and Silness) o Plaque index (Silness and Loe) o Plaque index (O'leary) o Plaque index (Quigely Hein) o Probing pocket depth o Clinical attachment loss o Basic Periodontal Examination (BPE) o Modified Gingival Index o Bleeding on probing o Furcation involvement index o Calculus index o Recession index (Miller) o Recession index (Cairo**	periodontics;p	1	19
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**The periodontal pocket - Classification - Clinical features - Pathogenesis - Histopathology: o Bacterial invasion o Microtopography of the gingival wall o Periodontal pockets as healing lesions o Pocket contents o Root surface walls**	periodontics;p	1	20
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**The periodontal pocket - Periodontal disease activity - 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**	periodontics;p	2	21
For short, semester, annual and final exams. For laboratory	Theoretical lecture	**Treatment plan guidelines § - Phase 1 (behavior change, removal of supragingival dental biofilm and risk factor control): o Self-**	periodontics;p	1	23

practical exams.	using power point	**performed supragingival biofilm control: i- Oral hygiene practices to control gingival inflammation ii- Behavioral change for oral hygiene improvement iii- Motivational interviewing and cognitive behavioral therapy o Adjunctive therapies for gingival inflammation o Professional supragingival dental biofilm control o Risk factor control: i- Local risk factor control ii- Tobacco smoking cessation interventions iii- Promotion of diabetes control intervention**			
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Treatment plan guidelines - Phase 2 (cause-related therapy) o Subgingival instrumentation: Scaling Root planing o Removal of plaque-retentive factors o Use of adjunctive systemically administered antibiotics to subgingival instrumentation o Re-evaluation of the cause-related therapy o Decision to refer for specialist**	periodontics;p	2	23
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Treatment plan guidelines - Phase 3 (corrective/surgical phase) o Objectives of surgical therapy o Periodontal accesssurgery: i- Resective ii- Regenerative o Extraction of hopeless teeth o Periodontal plastic surgery: i- Mucogingival surgery ii- Aesthetic crown lengthening o Pre-prosthetic surgery: i- Crown lengthening ii- Implant site preparation**	periodontics;p	3	24
الامتحانات	Theoretical lecture using power point	**Treatment plan guidelines - Phase 4 (maintenance therapy) o Clinical recommendations o Self-performed supragingival dental biofilm control o Adjunctive therapies for gingival inflammation o Professional supragingival dental biofilm control o Risk factor control**	periodontics;p	1	25

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Plaque biofilm control for the periodontal patient - The toothbrush: o Toothbrush design - Powered toothbrushes - Dentifrices - Toothbrushing methods - Interdental cleaning aids: o Dental floss o Interdental brushes o Other interdental cleaning devices - Oral irrigation: o Supragingival irrigation o Subgingival irrigation - Caries control	periodontics.p	1	26
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Plaque biofilm control for the periodontal patient - Chemical plaque biofilm control with oral rinses o Chlorhexidine digluconate: i- Mode of action ii- Clinical use 1 121 iii- Side-effects o Nonprescription essential oil rinse o Other products - Disclosing agents - Patient motivation and education: o Motivation for effective plaque biofilm control o Education and scoring systems: i- Plaque biofilm control record (O'Leary Index) ii- Bleeding points index o Instruction and demonstrati**	periodontics.p	1	27
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Periodontal instruments and sharpening - Types of periodontal instruments: i- Diagnostic instruments ii- Scaling, root planing, and curettage instruments • Plastic and Titanium Instruments for Implants iii- Cleansing and polishing instruments iv- Surgical instruments - Instrument stabilization: i- Instrument Grasping ii- Finger Rest - Condition of the instruments and resharpening**	periodontics.p	1	***28***
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Breath Malodor (Halitosis) - Definitions - Epidemiology - Classification - Etiology: o Intraoral Causes: i- Tongue and tongue coating ii- Periodontal infections iii- Dental disorders iv- Dry mouth o Extraoral Causes o Pseudo-halitosis or Halitophobia - Diagnosis of malodor - Prevention For short, semester, annual and final exams. For laboratory practical exams.and management: o Mechanical reduction of intraoral nutrients and microorganisms o Chemical reduction of oral microbial load: i-**	periodontics.p	1	***29***

		Chlorhexidine ii- Essential oils iii- Chlorine dioxide iv- Two-phase oil-water rinse v- Triclosan vi- Hydrogen Peroxide vii- Amine Fluoride or Stannous Fluoride o Conversion of volatile sulfur compounds: i- Metal Salt Solutions o Masking the Malodor			
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Systemic anti-infective therapy for periodontal diseases § - Definitions 1 122 - Common antibiotic regimens used to treat periodontal diseases - Tetracyclines: o Specific agents: i- Tetracycline ii- Minocycline iii- Doxycycline o Metronidazole o Penicillin derivatives: i- Amoxicillin ii- Amoxicillin–Clavulanate Potassium o Cephalosporins o Clindamycin o Ciprofloxacin o Macrolides - Single vs combination antibiotic therapy o Clinical implications**	periodontics;p	1	***30***

Clinical and preclinical requirement

Credit hours required	Requirement details
3 h/week (90 h/year)	**Preclinical:** - Training on ergonomic aspects of grasping and use of the instruments and their maintenance i.e. resharpening **Clinical:** - Recording medical and dental history - Patient's education and motivation - Oral hygiene instructions (OHI) - Recording periodontal indices - Diagnosis according to classification of periodontal disease and conditions (2017) - Non-surgical periodontal therapy (manual scaling + polishing)

11.البنية التحتية	
Newman and Carranza's Clinical Periodontology thirteen edition	1 Required textbooks
Reports published on the college website	2 Main references (sources)

College website	

Higher Education - Faculty of Dentistry	1. Educational Institution
Faculty of Dentistry / Orthodontics Department	2. Academic Department/Center
Dental Treatment	3. Course Name
Weekly	4. Available Attendance Forms
Two Semesters / Fourth Stage	5. Semester/Year
One hour of theory and one hour of practice	6. Number of Study Hours (Total)
2023-2024	7. Date of Preparation of this Description

8. Course objectives: Training the student on how to examine patients and diagnose the condition using modern approved diagnostic methods, then preparing a treatment plan, then starting to treat the medical condition in a scientifically correct manner and using modern materials and methods in treating root fillings by giving theoretical lectures with attendance at clinics. Students are also trained on root fillings on extracted teeth to prepare them to work clinically on patients. 9. Learning outcomes, teaching and learning methods and evaluation

A- Cognitive objectives

A1- Training the student on how to examine and diagnose pathological cases

A2- Providing important information and treatment steps

A3- Providing instructions and following up on root fillings

A4- A5- A6-

B- Course specific skill objectives

B1- Describe the tools used to prepare canals for root fillings

B2- Teach the student how to use them and follow up on them during work

Teaching and learning methods

Display cameras Data show, lecture, LCD, educational movies,

Evaluation methods

Theoretical and practical exams (clinical) and quick exams

C- Emotional and value objectives

C1- Solving problems

C2- Able to lead

C3- C4-

Teaching and learning methods

Theoretical and practical lectures (stimulus and response method)

Evaluation methods

Exams

D - General and transferable skills (other skills related to employability and personal development.) D1- Practical preparation of the student in relation to dental treatment, crowns, bridges and root fillings

week|	hours	Theoretical contents	Unit name/topic	Teaching method	Evaluation method
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry.	**1**	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry	**1**	**2**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry	**1**	**3**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry	**1**	**4**
For short, semester, annual and final exams.	Theoretical lecture using	**Operative**	Patient Evaluation , Diagnosis & Treatment Planning	**1**	**5**

For laboratory practical exams.	power point				
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Caries Management (Diagnosis & treatment strategies)	**1**	**6**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Cervical Lesions(carious and non carious lesions)	**1**	**7**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Restorative Dentistry and Pulpal Health	**1**	**8**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Management of Deep Seated Caries	**1**	**9**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Inflammatory Conditions of the Pulp	**1**	**10**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Treatment of Deep Seated Caries Simplified anatomical modeling.	**1**	11
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Fluoride – Releasing Materials	**1**	**12**
For short, semester, annual and final exams.	Theoretical lecture using power point	**Operative**	Indirect aesthetic adhesive restorations Inlays and Onlays (materials ,techniques) CAD/CAM Technology.	**1**	**13**

For laboratory practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Direct tooth-colored restorations(Composite)	**1**	**14**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Dental Laser	**1**	**15**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Application of Laser in Conservative Dentistry.	**1**	**16**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Application of Laser in Conservative Dentistry.	**1**	**17**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Indirect tooth-colored restorations	**1**	**18**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Techniques of posterior composite Inlay/Onlay restoration system Laboratory-processed composite inlays and onlays.	**1**	**19**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	Ceramic veneers, inlays and onlays, clinical procedures.	**1**	**20**
For short, semester, annual and final exams.	Theoretical lecture using power point	**Operative**	Ceramic veneers, inlays and onlays, clinical procedures.	**1**	21

For laboratory practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Operative**	CAD/CAM techniques	**1**	**22**

Clinical Requirements

Operative Dentistry	Hours
The students are required to complete the following restorations:- a. Amalgam Restorations Class I, Class II b. Composite (tooth colored) Restorations Class I, Class II, Class III, Class IV, and Class V	3h/wk
	90h/year

No.	Endodontic	Hours
1	Topics Covered	1
2	1-Objective of endodontic treatment	1
3	2- Basic Phases of Treatment	1
4	3- Pulp pathologies	1
5	Classification of periapical diseases	1
6	Access Opening Preparation	1
7	Endodontic Instruments	1
8	Roentgenography in Endodontics and Root canal preparation	1
Total		8

Clinical requirements (Preclinical Endodontic)

Lab number	Study unit title	Hours
1	Introduction	3
2	Block construction	3
3	Diagnosis	3
4	Quiz 1 in lab 1,2&3 +Access opening	3
5 6 7	Quiz 2 in lab 4 +Clinical access opening to one anterior tooth and two premolar teeth	3 3 3
8	Instrument	3
9	Equipment and materials	3
10	Quiz 3 clinical quiz in lab 8&9, Working length estimation demonstration .	3
11 12 13 14	Quiz 4 in lab 11 + clinical working length estimation on the same three teeth .	3 3 3 3
15	Rubber dam application	3
16	Quiz 5 clinical quiz in lab 15	
17	Review	
18	Root canal instrumentation .	
19 20 21 22 23	Quiz 6 in lab 18 + clinical instrumentation to the same teeth	
24	Root canal obturation.	
25 26 27	Quiz 7 in lab 24 +clinical obturation to three teeth.	
28 29	Review	

Ministry of Higher Education and Scientific Research	.10 Educational Institution
Orthodontics Branch	.11 Academic Department/Center
Orthodontics	.12 Course Name/Code
Weekly	.13 Available Attendance Forms
Two semesters/Fourth stage	.14 Semester/Year
30 theoretical hours and 60 practical hours	.15 Number of Study Hours (Total)
2024-2023	.16 Date of Preparation of this Description

17. Course objectives: Preparing the student at a high level of scientific knowledge regarding orthodontics and identifying the types of pathological cases, malocclusion, the causes leading to them, and the types of orthodontic devices.

18. Learning outcomes, teaching and learning methods, and evaluation
A- Cognitive objectives
A1- Gaining knowledge about the causes of malocclusion
A2- Methods of diagnosing and treating them
A3- Identifying the types of orthodontic devices

Course structure (theoretical aspect)

16	Quiz 5 clinical quiz in lab 15	3
17	Review	3
18	Root canal instrumentation .	3
19 20 21 22 23	Quiz 6 in lab 18 + clinical instrumentation to the same teeth	3 3 3 3 3
24	Root canal obturation.	3
25 26 27	Quiz 7 in lab 24 +clinical obturation to three teeth.	3 3 3
28 29 30	Review	3 3 3
Total		90

week	hours	Theoretical contents	Unit name/topic	Teaching method	Evaluation method
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	Definition of orthodontics - Definition of occlusion, normal, ideal and malocclusion	**1**	**1**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	Six keys of normal occlusion - Aims of orthodontic treatment	**1**	**2**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	Important orthodontic definitions Classification of malocclusion	**1**	**3**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	**Growth and development** - Definitions of growth, development and maturity - Stages of development (ovum till birth)	**1**	**4**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	- Theories of bone growth - Definitions of growth site, growth center, displacement, and drift	**1**	**5**

Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	- Growth curve and maximum growth spurt - Prenatal and postnatal growth and development of hard tissues	**1**	**6**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	- Prenatal and postnatal growth and development of soft tissues - Developmental anomalies	**1**	**7**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	- Jaw rotation - Compensation and adaptation	**1**	**8**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	**Deciduous and permanent dentition** a-Stages of tooth development: (Formation, calcification and root completion)	**1**	**9**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	b-Tooth eruption (stages and theories), Sequences and timing of eruption	**1**	**10**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	**Development of occlusion** a. new born oral cavity. b. Deciduous dentition stage - Dental changes till 6 years of age.	**1**	11
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	c. Early mixed dentition stage - eruption of first molars and incisors. d. Late mixed dentition stage - eruption of canines and premolars e. Permanent dentition - eruption second and third molars.	**1**	**12**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	**Etiology of malocclusion:** -Genetic and inherited etiological factors of malocclusion	**1**	**13**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	-Classification of etiological factors a. General factors i. Skeletal factors	**1**	**14**
Practical, semester, mid-year and final	Theoretical lecture using power point	**orthodontics**	ii. Soft tissue factors	**1**	**15**

exams					
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	iii. dental factors	**1**	**16**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	b. Local factors (definitions without treatment)	**1**	**17**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	**Tooth movement** a. Tissue changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth movement b. Accelerated tooth movement.	**1**	**18**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	c. Biomechanics i. Force (application, type, magnitude, duration and direction) ii. Center of resistance and rotation, moment of force and moment of couple. iii. Types of tooth movement iv. Rate of tooth movement and factors affecting it.	**1**	**19**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	d. iatrogenic effect of tooth movement (pain, mobility, pulp effect, root resorption, white spot lesions).	**1**	**20**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	**Biomechanics**	**1**	21
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	**Anchorage** (definition, indications, types)	**1**	**22**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	**Orthodontic appliances** a. Overview: i. passive orthodontic appliances (habit breaker, retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination) iii. Other active appliances: space regainer, Invisalign	**1**	**23**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	b. Removable Orthodontic Appliance: i. Properties of various components (SS wire, acrylic) ii. Components: 1) active components (springs, screws and elastics) 2) retentive components (clasps) 3) acrylic base plate and bite planes 4) anchorage	**1**	**24**
Practical, semester, mid-	Theoretical lecture using	**orthodontics**	iii. Design of a removable orthodontic appliance iv. Construction of a removable orthodontic appliance	**1**	**25**

year and final exams	power point		v. Soldering and welding vi. Post-insertion instructions and guidelines		
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	c. Fixed orthodontic appliance: Types, components, advantages, limitation, biomechanics, banding vs. bonding	**1**	**26**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	d. Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action	**1**	**27**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	*continue* Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action	**1**	**28**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	f. Retention and retainers Retention (definition, reason, time)	**1**	**29**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**orthodontics**	Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)	**1**	**30**

11. Infrastructure	
1. An Introduction to Orthodontics 5th Edition Simon J. Littlewood and Laura Mitchell 2019. 2. Orthodontics: Principles and Practice: Principles and Practice 2nd Edition 2017	1. Required textbooks
موقع الكلية الالكتروني	2. Main references (sources)

Clinical requirements

Lab number	Study unit title	Hours
1	Seminar 1 (Introduction to orthodontics)	4
2	Seminar 2 (Types of orthodontic appliances) (Introduction to removable appliance)	4
3	Seminar 3 (Orthodontic Pliers)	4
4	Seminar 4 (Stainless steel alloy properties)	4
5	Seminar 5 (Principles of wire bending)	4
6	Wire bending training	4

7	Z-Spring	4
8	Recurved Z-Spring	4
9	Review	4
10	Simple Finger Spring	4
11	Modified Finger Spring	4
12	Review	4
13	Buccal Canine Retractor	4
14	Modified Buccal Canine Retractor	4
15	Review	4
16	Quarterly Exam	4
17	Adams' Clasps on Upper Right 1st Molar	4
18	Adams' Clasps on Upper Left 1st Molar	4
19	Adams' Clasps on Upper Right 1st Premolar	4
20	Double Adams' Clasps on Upper Right 2nd premolar &1st molar	4
21	Review	4
22	Fitted Labial Arch	4
23	Hawley Arch	4
24	Review	4
25	Robert's Retractor	4
26	Acrylic baseplate	4
27	Soldering and Welding	4
28	Review	4
29	Quarterly Exam	4
30	Final Exam	4
Total		**120**

Higher Education - University of Maysan / College of Dentistry	Educational Institution .1
Branch of Orthodontics / Children and Preventive	Department/Center .2
Pediatric Dentistry	Course Name/Code .3
Weekly	Available Attendance Forms .4
Two semesters / Fourth stage	Semester/Year .5
30 theoretical hours / 60 practical hours	6. Number of Study Hours (Total)
2023-2024	Date of Preparation of this Description .7

9 Learning outcomes and teaching, learning and assessment methods

A- Cognitive objectives A-1 Formulating information in a way that enables students to understand

A-2 Increasing knowledge regarding the diagnosis and treatment of various dental diseases in children A-3 Oral and dental care and awareness of the importance of preserving baby teeth until permanent teeth emerge

In children

B- Course skill objectives B1 - Training students on dental diseases in children

B2 - Providing instructions on how to deal and interact with children B3 - Acquiring skills to diagnose baby and permanent teeth in children

Teaching and learning methods

data show.1 Educational movies.2

LCD.3.

.4 Display cameras

Evaluation methods

1 Attending lectures

2 Daily short and quick exam quiz

3 Semester exam

4 Mid-year exam

5 Final exam

6 Method of giving questions and space for discussion to solve them during the lecture.

C- Emotional and value-based objectives C-1 The student's ability to solve problems and possess distinctive thinking

C-2 The ability to lead student groups C-3 Evaluating student achievements

Teaching and learning methods

Following up on the student's thinking style, methods of expression and speed of response

Evaluation methods

1. Depends on the extent of the student's attendance and commitment to the lecture and his keeping up with the professors' explanations. 2. Conducting short exams to evaluate the student's understanding of the material presented and explained in the lecture. 3.

Conducting planned exams such as the semester, mid-year and final exams

D- General and transferable skills (other skills related to employability and personal development.)

D-1 Professional preparation D-2 Scientific preparation D-3 Cultural preparation

D-4 Employing the acquired skills so that the student becomes a dentist capable of treating patients

.10**Course structure**

Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours	week
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Eruption of teeth , normal eruption process**	**1**	**1**
For short, semester, annual and	Theoretical lecture using power point	**Pedodontics**	**Teething and difficult eruption**	**1**	**2**

final exams. For laboratory practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Eruption haematoma , sequestrum ,ectopic eruption**	**1**	**3**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Natal and neonatal teeth**	**1**	**4**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Local factors influence eruption**	**1**	**5**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Systemic factors influence eruption**	**1**	**6**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Morphology of the primary teeth**	**1**	**7**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Normal morphology of all primary teeth and their clinical consideration**	**1**	**8**
For short, semester, annual and final exams.	Theoretical lecture using power point	**Pedodontics**	**Morphologic differences between primary and permanent teeth**	**1**	**9**

For laboratory practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Functions of primary teeth**	**1**	**10**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Dental caries; Definition and Classification**	**1**	**11**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Etiology of dental caries**	**1**	**12**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Early childhood caries,**	**1**	**13**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Nursing caries ,baby bottle tooth decay**	**1**	**14**
For short, semester,	Theoretical lecture using power point	**Pedodontics**	**Severe childhood caries**	**1**	**15**

annual and final exams. For laboratory practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Rampant dental caries**	**1**	**16**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Restorative dentistry for children**	**1**	**17**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**solation & maintenance of dry field and application of the rubber Dam**	**1**	**18**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Morphological consideration ,cavity preparation and instrumentation**	**1**	**19**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Cavity preparation on primary teeth, restorative materials used on pediatric dentistry, Matrices & retainers**	**1**	**20**
الامتحانات القصيرة, و الفصلية, و نصف	**Theoretical lecture using power pointr**	**Pedodontics**	**Chrome steel crowns**	**1**	**21**
السنة و النهائي	**Point**				
For short, semester, annual and final exams. For laboratory	Theoretical lecture using power point	**Pedodontics**	**Atrumatic Restorative Therapy (ART)**	**1**	**22**

practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Treatment of deep caries**	**1**	**23**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Diagnosis aids in the selection of teeth for pulp therapy**	**1**	**24**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Indirect pulp treatment**	**1**	**25**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Vital pulp therapy**	**1**	**26**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**pulpotomy**	**1**	**27**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Non vital pulp therapy technique**	**1**	**28**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Reaction of pulp to various capping material**	**1**	**29**

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**Pedodontics**	**Failure after vital pulp therapy**	**1**	**30**

11.البنية التحتية	
McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by **Elsevier** **Pediatric Dentistry Damile 3rd ed. 2009** **Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delh** **Hand book of pediatric dentistry (Cameron) mosby/third edition/2008** **Principles and practice of pedodontics /Arathi Rao Jaypee/second edition2008** **Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012**	1 Required textbooks
Reports published on the college website	2 Main references (sources)
College website	

12 Curriculum Development Plan
-Developing the curriculum content by deleting, adding and replacing.

Higher Education - College of Dentistry	Educational Institution	.1
Branch of Orthodontics / Industry	Department / Centre	.2
Prosthetics	Course Name / Code	.3
Weekly	Available Attendance Forms	.4
Two semesters / Fourth stage	Semester / Year	.5
30 theoretical hours 90 practical hours	Number of Study Hours	.6
2023-2024	(Total)	.7

.8 Course Objectives

Training students on how to examine patients and diagnose the patient's medical condition using modern and currently approved diagnostic methods, then preparing a treatment plan, starting treatment in a scientifically correct way and using modern materials and methods in manufacturing partial dentures

By giving theoretical lectures with practice in clinics

.9 Learning outcomes and teaching, learning and evaluation methods

A-Cognitive objectives

A-1 Training students on how to examine and diagnose medical conditions.

A-2 Providing important information and treatment steps.

A-3 Providing instructions and following up on the partial manufacturing process.

B - Course specific skill objectives B 1 - Description of the tools used to treat patients in need of partial dentures

B 2 - Practical training on the steps followed to treat patients in need of partial dentures

B 3 - Follow-up of the student during work

Teaching and learning methods

Intensive practical training within the teaching dental hospital LCD lecture, show, Data for smart boards, explanatory films and discs

Evaluation methods

Theoretical and practical exams (clinical).

Each student is required to have a certain number of acrylic and flexible partial denture cases, including easy, medium and difficult cases.

Case sheet

C- Emotional and value goals C-1 Solving problems

C-2 Able to lead C-3 Creating a spirit of scientific competition among students through direct and indirect questions related to various cases coming to dentistry C-4 Encouraging the student to develop himself through reading and continuous training

Teaching and learning methods

Theoretical lectures and practical training

Evaluation methods

Theoretical and practical exams in addition to the therapeutic requirements Requirements, which are the number of cases that he must treat correctly, skillfully and completely to be counted as part of the annual pursuit requirements

D- General and transferable skills (other skills related to employability and personal development.) D-1 Encouraging and motivating the student to participate in training courses and conferences held inside and outside the college

And in the Syndicate and the Society of Artificial Prosthetics

Course structure .10

Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours	week
For short, semester, الامتحانات annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	Prosthetics	**osteology**	**1**	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point				
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point				
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point		**myology**	**1**	**2**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point				
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point				
Therapeutic case	Theoretical lecture using power point		**Diagnosis and treatment plan for RPD**	**1**	**3**
Practical hours include	Theoretical lecture using power point		**To be continued Diagnosis and treatment**	**1**	**4**
four hours in the clinic weekly and the	Theoretical lecture using power point		**Mouth preparation and abutment tooth preparation**	**1**	**5**
	Theoretical lecture using power point		**To be continued**	**1**	**5**
	Theoretical lecture using power point		**Impression materials and techniques for R PD**	**1**	**7**
	Theoretical lecture using power point		**To be continued**	**1**	**8**
	Theoretical lecture using power point		**Support in FEE RPD**	**1**	**9**
	Theoretical		**techniques altered cast and metal check**	**1**	**10**

student is required to take	lecture using power point Theoretical lecture using power point Theoretical lecture using power point Theoretical lecture using power point Theoretical lecture using power point Theoretical lecture using power point Theoretical lecture using power point Theoretical lecture using power point Theoretical lecture using power point Theoretical lecture using power point Theoretical lecture using power point Theoretical lecture using power point Theoretical lecture using power point Theoretical lecture using power point		**Occlusion in rpd**	**1**	**11**
			Jaw relation in rpd	**1**	**12**
			Prep prosthetic surgery	**1**	**13**
			To be continued	**1**	**14**
	Theoretical lecture using power point Theoretical lecture using power point Theoretical lecture using power point		**Diagnosis and treatment plane CD**	**1**	**15**
			To be continued	**1**	**16**
	4casesFEE,2		**Impression in CD**	**1**	**17**
	bounded&repair&immediate RPD denture		**To be continued**	**1**	**18**

	One Cr/Co RPD		TMJ and mandibular movement	1	19
			Jaw relation-vertical	1	20
			To be continued	1	21
			Jaw relation- horizontal	1	22
			To be continued	1	23
			Try in stage in CD	1	24
			To be continued	1	25
			Insertion of CD	1	26
			Adjustments of CD	1	27
			relining and rebasing in RPD	1	28

11.البنية التحتية	
Zarb, Hobkirk, Eckert, Jacob et al. Prosthodontic treatment for edentulous patients: Complete dentures and implant-supported prostheses.13th edition 2013 by Mosby, Elsevier Inc. ▪ Carr and Brown. McCracken's removable partial prosthodontics, 13th edition 2016 by Elsevier, Inc. ▪ Phoenix, Cagna, DeFreest. Stewart's clinical removable partial prosthodontics, 4th edition, 2008 Quintessence Publishing Co, Inc. ▪ Golden and Driscoll. Treating the complete denture patient. 1st edition 2020 John Wiley & Sons, Inc. ▪ Rahn, Ivanhoe and	الكتب المقررة المطلوبة1.
Plummer. Textbook of complete dentures.6th edition 2009 People's Medical Publishing House-USA. ▪ Veeraiyan, Ramalingam, Bhat. Textbook of prosthodontics.1st edition 2003 Jaypee Brothers Medical Publishers (P) Ltd. ▪ Jones and García. Removable partial dentures a clinician's guide.1st edition, A John Wiley and Sons, Inc., Publication.	

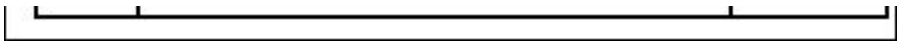
Clinical requirements

Lab number	Study unit title
1	3 acrylic RPD (free end extension).
2	2 acrylic RPD (bounded saddles).
3	1 immediate or flexible RPD.
4	1 case repair.

Fifth stage

Total	90 h/ year

Higher Education - Faculty of Dentistry	1 Educational institution .2 Scientific department / center
Faculty of Dentistry	1 Educational institution .2 Scientific department / center
Dental Treatment	3 Course name/code
Weekly	
Two semesters/Fifth stage	4 Available forms of attendance
30 theoretical hours and 60 practical hours	
2024-2023	5 Semester/year
8 Course objectives	
Training the student on how to examine patients and diagnose the condition using modern approved diagnostic methods, then preparing a treatment plan, then starting to treat the medical condition in a scientifically correct manner and using modern materials and methods in treating root fillings, crowns and bridges by giving theoretical lectures with attendance in clinics.	



5	Microbiology	1
6	Microbiology	1
7	Intracanal instruments	1
8	Intracanal instruments	1
9	Obturation of the root canal system	1
10	Obturation of the root canal system	1
11	Endodontic Emergency Treatment	1
12	Restoration of Endodontically Treated Teeth	1
13	Endodontic-Periodontal Relations	1
14	Tooth discoloration and bleaching.	1
15	Tooth discoloration and bleaching.	1
Total		**15**

Number	Title of the lectures Fixed Prosthodontics	Hours
1	Terminology, definition of fixed partial denture , Effect of Tooth Loss, Comparism with R.P.D	1
2	Types of Fixed Bridge including Basic Bridge Design	1
3	Components of Fixed Bridge; • Retainers.----------	1
4	Components of Fixed Bridge; • Pontics---------- • Connectors.----------	1
5	• Clinical Consideration for Bridge Construction.- _Abutment Tooth(evaluation and selection) _Crown/Root Ratio. _Splinting of teeth. _Patient Occlusal Status. _General Factors.	1
6	• Clinical Situations affecting Bridge Design; • (Post. Tilted Abutments, Span Length, Pier Abut., Arch	1

	Curvature)	
7	• Resin bonded bridge	
8	• Diagnosis And Treatment Plan. a. Intra-oral Examination. b. X-Rays Examination. c. Diagnostic Cast Examination.	1
9	• Gingival retraction and impression(techniques)and impression disinfection	1
10	• provisional Restoration , Oclussion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registeration, and Articulation	1
11	• provisional Restoration , Oclussion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registeration, and Articulation	1
12	• Try-in and Shade Selection (Colour dimensions Hue,Chroma,and Value).	1
13	• Final Cementation of F.P.Ds.(Techniques)	1
14	• Failure in Fixed Prosthodontics.	1
15	• Porcelain in Fixed Prosthodontics (Current Ceramic).	1
Total		**15**

Clinical Requirements

Minimum Requirement	Hours
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 III, Class IV ,and Class V. c. Fixed prosthesis including crown and bridge work. d. Endodontic treatment for anterior teeth and premolars. e. Seminars	6h/wk
Total	**180 h/year**

	البنية التحتية11.
• McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2022 by Elsevier Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2019 New Delh	الكتب المقررة المطلوبة1.
•	

Clinical Requirements

Clinical requirement

No	Title	hours
1	Diagnosis and treatment planning	2
2	Diagnosis and treatment planning	2
3	Preliminary medical and dental history,Clinical examination , Radio graphic examination	2
4	Preliminary medical and dental history,Clinical examination , Radio graphic examination	2
5	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants	2
6	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants	2
7	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion	2
8	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion	2
9	Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials	2
10	Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials	2
11	Trauma management in anterior teeth	2

12	Trauma management in anterior teeth	2
13	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material	2
14	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material	2
15	Pulp therapy for primary dentition	2
16	Pulp therapy for primary dentition	2
17	Management of simple cases of dental anomalies and other developmental defects	2
18	Management of simple cases of dental anomalies and other developmental defects	2
19	Maintenance of pulp vitality by use of regenerative materials and Root canal treatment for anterior non vital teeth	2
20	Maintenance of pulp vitality by use of regenerative materials and	2
	Root canal treatment for anterior non vital teeth	
21	Extraction for non restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment	2
22	Extraction for non restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment	2
23	Management of molar incisor hypomineralization MIH	2
24	Behavior management for young patients	2
25	Behavior management for young patients	2
26	Infection control re-assurance and guidance of students	2
27	Infection control re-assurance and guidance of students	2
28	Tooth colored restoration technique	2
29	Tooth colored restoration technique	2
30	Radiographic prescription and interpretation of results	2
Total		**60**

Ministry of Higher Education and Scientific Research / University of Maysan	1 Educational institution

Dentistry / Diagnosis Branch / Oral Diagnosis	
Oral Medicine	2 Academic department/center
Weekly	
Two semesters / Fifth stage	3 Course name/code
30 theoretical hours and 120 practical hours	
2023-2024	4 Available forms of attendance

8 Course objectives: Qualifying dentists capable of knowing the causes of various diseases that affect the mouth and studying their clinical diagnosis and treatment methods

.9 Learning outcomes and teaching, learning and evaluation methods

A- Cognitive objectives A-1 The ability to distinguish between various diseases that affect the inside of the mouth

A-2 Methods of treating oral diseases A-3 Diagnosis and treatment of the temporomandibular joint

B- Course specific skill objectives B1 The ability to distinguish between various oral diseases

B-2 How to use dyes B-3 Learn histological sectioning

- B

-4B

Teaching and learning methods

Theoretical lectures Scientific discussions and seminars Using LCD screens

Using illustrative means such as video

Course structure .10					
Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours	week
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-medicine	The principles of oral diagnosis Clinical examinations	2 2	1 2 3 4
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-medicine	Laboratory investigations in dentistry	2	5 6
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-medicine	Facial pain Neuromuscular disorder	2 2	7 8 9 10
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-medicine	T.M.J	2	11 12
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-medicine	Vesiculo- bullus lesions	2	13 14
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-medicine	White & red lesions	2	15 16
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-medicine	Oral cancer	2	17 18
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-medicine	Pigmented oral lesions	2	19 20
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-medicine	Oral ulceration	2	21 22
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-medicine	BMS	2	23 24
Practical,	Theoretical lecture using	oral-medicine	Salivary	2	25 26

semester, mid-year and final exams	power point		glands diseases		
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**oral-medicine**	Autoimmune diseases	2	27 28
وهنايةالسنه . ومسنارات					
Practical, semester, mid-year and final exam	**Theoretical lecture using power point**	**oral-medicine**	**Oral manifestation of allergic reaction**	**2**	**29** **30**

11.البنية التحتية	
Burket's oral medicine. Michael Glick, Martin Greenberg, Peter Lockhart and Dtephen Challacombe. 13th edition.2021, **Wiley Black well**	.1 Required textbooks
Reports published on the college website	2 Main references (sources)
College website	

.12 Curriculum Development Plan
-Developing the curriculum content by deleting, adding and replacing.

Clinical requirements

Lab number	Study unit title	Hours
1	Bacterial infections.	2.5
2	Viral infections.	2.5
3	fungal infections.	2.5
4	cardiovascular system	2.5
5	cardiovascular system	2.5
6	Anemia	2.5
7	Anemia	2.5

8	Leukemia	2.5
9	Leukemia	2.5
10	GIT	2.5
11	Hepatitis	2.5
12	Respiratory disease	2.5
13	Diabetes	2.5
14	Diabetes	2.5
15	Thyroid and growth hormones.	2.5
16	Adrenal insufficiency.	2.5
17	Adrenal insufficiency	2.5
18	Renal disease	2.5
19	Bleeding disorders and blood dyscrasias	2.5
20	Granulomatous disease of the oral cavity.	2.5
21	Granulomatous disease of the oral cavity.	2.5
22	Drug induced oral lesions	2.5
23	STDs (sexually transmitted diseases)	2.5
24	Drugs in dentistry	2.5
25	Immunological aspects of oral diseases	2.5
26	Immunological aspects of oral diseases	2.5
27	Neuromuscluar disorders of the face.	2.5
28	Neuromuscluar disorders of the face.	2.5
29	Benign and malignant lesions of oral cavity	2.5
30	Benign and malignant lesions of oral cavity	2.5
Total		75

Ministry of Higher Education and Scientific Research / University of Maysan	Educational Institution .1		
Oral Diagnosis Branch	Department/Center .2		
Oral Surgery	Course Name/Code .3		
Weekly	Available Attendance Forms .4		
Two semesters / Fifth stage	Semester/Year .5		
30 theoretical hours and 180 practical hours	6. Number of Study Hours (Total)		
2023-2024	Date of Preparation of this Description .7		
Course objectives: Prepare the student at a high level of scientific knowledge regarding the principles of oral, maxillofacial and facial surgery, especially benign and malignant tumors, orthodontic surgery, maxillofacial injuries and dental implants. .8			

9 Learning outcomes, teaching, learning and assessment methods
A- Cognitive objectives
A-1 Acquire basic knowledge about the principles of oral and maxillofacial surgery.

A-2 Acquire basic knowledge about dental implants.
-3A
-4A
-5A
-6A
B - Course specific skill objectives B1 - Training on tooth extraction
B2 - Training on minor dental surgeries B3 - Training on surgical diagnosis
B-4 Introducing students to the principles of dental implants and the use of lasers in oral surgery
Teaching and learning methods
Lectures using point power show (data) Dental extraction clinics, minor surgeries and surgical diagnosis Preparing seminars by students under the supervision of professors

Course structure .10

Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours	week
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	Orofacial pain • Classification; somatic and neuropathic • Diagnosis • Somatic pain; odontogenic pain, oral mucous membrane disorders, temporomandibular joint disorders, muscle disorders • Neuropathic pain; trigeminal neuralgia, glossopharyngeal neuralgia, atypical odontalgia, postherpetic neuralgia • Vascular pain; giant cell arteritis and migraine.	1	1
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	Preliminary management of patients with facial fractures • Etiology of maxillofacial trauma • Primary survey and advanced trauma life support (ATLS) Secondary survey	1	2
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	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	2	3
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	Fractures of the mandible Mandibular fracturesthat require special consideration: • Pediatric fractures, • Fractures of edentulous mandible • Condylar fractures • Comminuted fractures	2	5
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	Fractures of the middle third of facial skeleton • Classification, clinical presentation imaging and treatment of: ⎫ Le Fort fractures ⎭ Zygomatic complex fractures	1	7
Practical, semester, mid-year and final	Theoretical lecture using power point	oral-surgery	Fractures of the middle third of facial skeleton • Classification, clinical presentation imaging and 1 141 treatment of: ⎫ Orbital floor fractures ⎭ Nasal	1	8

exams			bone fractures • Complications of fractures of middle third of facial skeleton		
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	Dentoalveolar and soft tissue injuries • Factors affecting dentoalveolar injuries • Classification • Clinical presentation • Radiographic evaluation • Treatment • Splinting techniques • Complications. • Soft tissue injures; classification, treatment and soft tissue injuries of special significance	4	9
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	Preprosthetic surgery • Definition. • Preoperative assessment • Clinical examination and radiographic evaluation. • Bony recontouring procedures: alveoloplasty, maxillary tuberosity reduction, exostoses and excessive undercuts, mylohyoid ridge and genial tubercle reduction and torus removal	2	8
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	Preprosthetic surgery • Soft tissue procedures: unsupported hypermobile tissue on the alveolar ridge, inflammatory fibrous hyperplasia (epulis fissuratum), labial frenectomy, lingual frenectomy, ridge extension (vestibuloplasty) • Immediate dentures • Alveolar ridge preservation • Correction of abnormal ridge relationships	1	9
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	**Potentially malignant disorders of the oral mucosa • Classification and terminology • Risk factors, • Diagnostic methods and diagnostic aids Potentially malignant disorders: leukoplakia, erythroplakia, palatal changes associated with reverse smoking, oral submucous fibrosis, actinic cheilitis and lichen planus**	**1**	**10**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	**Odontogenic diseases of the maxillary sinus • Overview of the maxillary sinus • Clinical and radiographic examination • Non-odontogenic infections of the maxillary sinus • Odontogenic infections of the maxillary sinus • Oroantral communications and fistulae • Treatment**	**1**	**11**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	**Benign cystic lesions of the oral cavity • Definition • Classification of cysts (according to the WHO classification 2017) • Odontogenic cysts of inflammatory origin • Odontogenic and non-odontogenic developmental cysts • Clinical features • Radiographic features • Surgical management of cystic lesions • Enucleation: indications,**	**1**	**12**

			advantages and disadvantages • Adjunctive treatment ⏐ Peripheral ostectomy and curettage ⏐ Cryotherapy ⏐ Chemical treatment ⏐ Topical 5-fluorouracil ⏐ Marsupialization		
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	**Odontogenic tumors • Definition • Classification of Odontogenic Tumors (according to the WHO classification of odontogenic cysts, tumors and maxillofacial bone tumors 2017) ⏐ Epithelial odontogenic tumors ⏐ Mixed epithelial and mesenchymal odontogenic tumors ⏐ Mesenchymal odontogenic tumors. • Clinical features • Radiographic features • Ameloblastoma ⏐ Ameloblastoma ⏐ Unicystic ameloblastoma ⏐ Peripheral/extraosseous) • Odontoma ⏐ Compound type ⏐ Complex type • Surgical treatment of odontogenic tumors • Enucleation and/or curettage, adjunctive treatment • Resection**	**1**	**13**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	**Non-odontogenic tumors and fibro-osseous lesions of the jaw • Classification (according to the WHO classification of 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**	**1**	**14**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	**Oral cancer • Natural history of squamous 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**	**2**	**15**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery		**2**	**16**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	Implant Treatment: Advanced Concepts • Immediate post-extraction implants • Immediate loading versus delayed loading • Bone grafts and graft substitutes • Sinus lift procedure	2	17
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	Implant Treatment: Advanced Concepts • Inferior alveolar nerve lateralization • Narrow and short implants • Image-guided implantology • Computer-Assisted Implant Surgery •	1	18

			Special implants(zygomatic and extra-oral implants)		
Practical, semester, mid-year and final exams	Theoretical lecture using power point	oral-surgery	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	1	19
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	oral-surgery	Salivary gland diseases • Autoimmune conditions: Sjögren syndrome, Immunoglobulin G4-related salivary gland disease • Other salivary gland conditions: Salivary duct cyst (Mucus retention cyst), Necrotizing sialometaplasia, Sarcoidosis, Sialadenosis (sialosis), Radioactive iodine sialadenitis • Neoplasms: benign and malignant (according to 4 th edition of the WHO classification 2017). • Principles and complications ofsalivary gland surgery	2	20
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point		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		21
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point		Temporomandibular joint (TMJ) disorders • Hypermobility of TMJ • Hypomobility of TMJ: • Classification of TMJ ankyloses • Treatment		22
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point		Orthognathic surgery • Definition • Treatment objectives • Clinical examination (facial evaluation in frontal and profile views) • Radiographic evaluation (Lateral cephalometric analysis) • Pre-surgical Orthodontic Considerations • Treatment Timing		23

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point		Orthognathic surgery • Mock surgery and fabrication of splints • Surgical treatment phase (mandibular excess, mandibular deficiency, maxillary excess, Maxillary and Midface Deficiency) • Distraction osteogenesis		24
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point		Cleft lip and palate 1 145 • Epidemiology • Etiology • Classification • Prenatal diagnosis • Clinical manifestations • Management; presurgical orthopedics, primary operative management, treatment planning and timing, surgical procedures of cleft lip		25
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point		Cleft lip and palate • Management; Surgical procedures of cleft palate, complications • Secondary operative management; alveolar bone grafting, goals and timing, procedure, source of bone graft, complications.		26
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point		Laser and Cryosurgery in oral and maxillofacial surgery • Laser • Classification of laser according to power: lowenergy and high-energy • The advantages of laser • Hazards and precautions required when using laser • Cryosurgery • Cryosurgery techniques • Uses of cryosurgery • The advantages of using cryosurgery • The disadvantages of using cryosurgery		27
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point		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 • Investigations • Treatment		28
For short, semester, annual and final exams.	Theoretical lecture using power point		Principles of reconstructive surgery of defects of the jaws • Goals of reconstruction • Biologic basis of bone reconstruction • Types of grafts (autogenous, allogeneic, 1 146 xenogeneic) • Osteoinduction, Osteoconduction and		29

For laboratory practical exams.			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		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point		Principles of reconstructive surgery of defects of the jaws • Maxillary reconstruction • Goals of maxillary reconstructive surgery • Computer-assisted surgical planning • Flaps for maxillofacial reconstruction • Definition • Classifications • Examples of flaps in maxilla-mandibular reconstruction (palatal flap, tongue flap, buccal fat pad flap, Facial Artery Musculomucosal Flap, Temporalis muscle flap, Submental Flap, Vascularized Iliac Crest Grafts		30

يتالف الجانب العملي للمنهاج من حضور عيادات جراحة الفم بواقع 6 ساعات اسبوعيا و 180 ساعه سنويا. تشمل متطلبات الجانب العملي السنوية لطالب المرحلة الخامسة ما يلي:

قلع الاسنان البسيط.

قلع الاسنان الجراحي.

المساعدة في عمليات جراحة الفم و زراعة الاسنان.

المشاركة في جولات سريرية في ردهات جراحة الفم و الوجه و الفكين في المستشفى.

Clinical requirement	
• 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	6 hours/ week 180 hours/ year

11.البنية التحتية	
Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier).	1 Required textbooks
Reports published on the college website	2 Main references (sources)
College website	

12 Curriculum Development Plan
-Developing the curriculum content by deleting, adding and replacing.

يتالف الجانب العملي للمنهاج من حضور عيادات جراحة الفم بواقع 6 ساعات اسبوعيا و 180 ساعه سنويا. تشمل متطلبات الجانب العملي السنوية لطالب المرحلة الخامسة ما يلي:

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Clinical requirement	
• 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	6 hours/ week 180 hours/ year

Higher Education - College of Dentistry University of Maysan	1 Educational institution .2 Scientific department / center
Orthodontics Department /	1 Educational institution .2 Scientific department / center
Pediatric Dentistry /	3 Course name/code
Weekly	
Two semesters/Fifth stage	4 Available forms of attendance
30 theoretical hours 60 practical hours	
2023-2024	5 Semester/year
.8Course objectives: Understand and comprehend the theoretical and practical methods for treating all cases of pediatric dental injury and identify scientific methods and techniques supported by means of clarification to know how to identify brown and permanent teeth and the problems related to them.	

9 Learning outcomes and teaching, learning and assessment methods

A- Cognitive objectives A-1 Formulating information in a way that enables students to understand

A-2 Increasing knowledge regarding the diagnosis and treatment of various dental diseases in children A-3 Oral and dental care and awareness of the importance of preserving baby teeth until permanent teeth emerge in children

B- Course skill objectives B1 - Training students on pediatric dental diseases

B2 - Providing guidance on how to deal and interact with children B3 - Acquiring skills to diagnose baby and permanent teeth in children

Teaching and learning methods

data show.1 Educational movies.2

LCD.3.

.4 Display cameras

Evaluation methods

1 Attending lectures

2 Daily short and quick quiz exam

3 Semester exam

4 Mid-year exam

5 Final exam

6 Method of giving questions and space for discussion to solve them during the lecture.

C- Emotional and value-based objectives C-1 The student's ability to solve problems and possess distinctive thinking

C-2 The ability to lead student groups C-3 Evaluating student achievements

Teaching and learning methods

Following up on the student's thinking style, methods of expression and speed of response

Evaluation methods

1. It depends on the extent of the student's attendance and commitment to the lecture and keeping up with the professors' explanations. 2. Conducting a short exam to evaluate the student's understanding of the material presented and explained in the lecture. 3. Conducting the planned exams such as the semester, mid-year and final exams

D- General and transferable skills (other skills related to employability and personal development.)

D-1 Professional preparation D-2 Scientific preparation D-3 Cultural preparation

D-4 Employing the acquired skills so that the student becomes a dentist capable of treating patients

.10Course structure					
Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours	week
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Diagnosis and treatment planning	1	1
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Preliminary medical and dental history	1	2
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Art and science of behavior management	1	3
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Pharmacologic management of patient behavior	1	4
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	6 Sedation in pediatric dentistry	1	5
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	management of traumatic injuries to the teeth and supporting tissues of children	1	6
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	classification of injuriesto the anterior teeth of children classification methods of clinical examination	1	7
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Traumatic injuries of the primary teeth and its effect on permanent teeth	1	8
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Treatment of injury of permanent teeth, emergency treatment, temporary restoration	1	9
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics		1	10
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Advancesin Pediatric Dentistry: Advances in diagnostic aids, Advancesin cavity preparation methods	1	11
Practical, semester, mid-	Theoretical lecture using				

year and final exams	power point				
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Advances in endodontics, Advancesin local anesthesia	1	12
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Advances in restorative materials, Advances in surgical procedures, miscellaneous	1	13
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Acquired disturbances of oral structures	1	14
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Developmental disturbances of oral structures	1	15
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Gingivitis and periodontal disease in children:	1	16
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Acute candidacies (thrush), acute bacterial infection, chronic non specific gingivitis, gingival diseases modified by systemic factors.	1	17
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Gingival lesions of genetic origin, ascorbic acid deficiency gingivitis	1	18
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Periodontal diseases in children, early onset periodontitis, prepubertal periodontitis, localized juvenile periodontitis	1	19
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Papillon – Lefevere syndrome, gingival recession, extrinsic stains and deposits on teeth	1	20
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Management of space problems, planning for space maintenance, loss of primary incisors	1	21
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Space Maintenance for the First and Second Primary Molar and the Primary Canine Area, premature loss of second primary molar	1	22
السنة و النهائي	Point				
Practical,	Theoretical lecture using	pedodontics	Loss of the Second Primary Molar Before Eruption of the First	1	23

semester, mid-year and final exams	power point		Permanent Molar, Areas of Multiple Primary Molar Loss		
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Development of dental arch and occlusion	1	24
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Arch length analysis;	1	25
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Dental problems of the disabled child	1	26
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Mental disability, Down syndrome, Intellectual disability, Learning disability	1	27
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Fragile X syndrome, cerebral palsy, autism,	1	28
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Respiratory diseases, hearing loss, visual impairment, epilepsy	1	29
Practical, semester, mid-year and final exams	Theoretical lecture using power point	pedodontics	Heart disease, hemophilia, ,sickle cell anemia, viral hepatitis, AIDS, children with systemic diseases	1	30

Clinical requirement

No	Title	hours
1	Diagnosis and treatment planning	2
2	Preliminary medical and dental history,Clinical examination , Radio graphic examination	2
3	Demonstration how to obtain a complete case sheet	2
4	Monitoring the developing dentition and recognition of any sign of malocclusion	2
5	Types of Caries removal techniques	2
6	Restoration of primary and young permanent teeth with variety types of restorative materials	2
7	Management of traumatic injuries of the anterior teeth	2
8	Minor oral surgery	2
9	Minimal intervention dentistry	2
10	Pulp therapy for permanent dentition	2
11	Pulp therapy for primary dentition	2
12	Materials used for pulp therapy	2
13	Chrome steel crowns	2
14	Management of simple cases of dental anomalies and other developmental defects	2
15	Maintenance of pulp vitality by use of regenerative materials	2

16	Root canal treatment for anterior non vital teeth	2
17	Extraction for non restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment	2
18	Management of molar incisor hypomineralization MIH	2
19	Behavior management for young patients	2
20	Infection control re-assurance and guidance of students	2
21	Tooth colored restoration technique	2
22	Radiographic prescription and interpretation of results	2
23	Space maintainers	2
24	Fluoride application as a preventive measure	2
25	Amelogenesis imperfecta	2
26	Supernumerary teeth and their impact on teeth eruption	2
27	Management of medically compromised children	2
28	Peg teeth management	2
29	ART technique	2
30	Prosthesis usage in pediatric dentistry	2
Total		60

11.البنية التحتية	
McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by **Elsevier Pediatric Dentistry Damile 3rd ed. 2009 Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delh Hand book of pediatric dentistry (Cameron) mosby/third edition/2008 Principles and practice of pedodontics /Arathi Rao Jaypee/second edition2008 Paediatric** **Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012**	1 Required textbooks

2 Main references (sources)

Reports published on the college website a) Recommended books and references

(scientific journals, reports,)

The college website b) Electronic references, websites

The Internet,

12 Curriculum Development Plan	
-Developing the curriculum content by deleting, adding and replacing.	
Higher Education - College of Dentistry / University of Maysan	1 Educational institution
Branch of Orthodontics	
Preventive Dentistry	2 Academic department/center
Weekly	
Annual	3 Course name/code
30 hours of theory 60 hours of practice	
2024-2023	4 Available forms of attendance

8 Course objectives

To define the importance of preventive dentistry and its applications for individuals and society, especially for widespread diseases such as tooth decay and gum disease, as well as what is related to nutrition and immune factors against oral and dental diseases

.9 Learning outcomes and teaching, learning and assessment methods
A- Cognitive objectives A-1 Formulating information in a way that enables students to understand and increase knowledge regarding the diagnosis and treatment of various diseases such as tooth decay A-2 Providing special instructions for dental care and health awareness to prevent tooth decay and gum diseases A-3 Providing special instructions and preventive programs for oral and dental health for the elderly and adults with special needs
B- Course skill objectives B1 - Training students to treat tooth decay and remove plaque from teeth
B2 - Training students on how to use fluoride to prevent tooth decay B3 - Providing instructions for dental and oral health care
Teaching and learning methods
Giving theoretical lectures using LDC, show data
Education movies show
Practical
Evaluation methods
-1 Conducting daily exams Quiz -2 Written and oral exams
-3 Conducting clinical tests on patients
-4 Clinical practical evaluation (Requirement)
D- General and transferable skills (other skills related to employability ۲.1and personal development). D-

Infrastructure1.10					
Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours	week
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prevention	Preventive dentistry (introduction)	1	1
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prevention	Etiology of dental caries	1	2
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prevention	Fluoride in Dentistry	1	3
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prevention	Systemic fluoridation (history)	1	4
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prevention	Communal water fluoridation	1	5
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prevention	Fluoride supplements	1	6
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prevention	Topical fluoridation	1	7

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prevention	Self-applied fluoride	1	8
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prevention	Professionally applied fluoride	1	9
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prevention	Toxicity of fluoride	1	10
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prevention	Microbiology of caries	1	11
الامتحانات	محاضرة نظرية	prevention	Cariogenic potential	1	12
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point		**of bact.**		
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Fissure sealants**	**1**	**13**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**New approach in restorative dentistry**	**1**	**14**
For short, semester, annual and final exams. For laboratory	**Theoretical lecture using power point**	**prevention**	**Diet and dental caries**	**1**	**15**

practical exams.					
Half-year Break					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Non- sugar sweeteners**	**1**	**16**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Dietary counseling in dental practice**	**1**	**17**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Nutrition and oral health**	**1**	**18**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Nutrition, diet & periodontal disease**	**1**	**19**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Saliva and dental caries**	**1**	**20**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Oral immune system**	**1**	**21**
For short, semester, annual and final exams. For laboratory	Theoretical lecture using power point	**prevention**	**Oral hygiene measures**	**1**	**22**

practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Dental Caries development**	**1**	**23**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Diagnosis of caries**	**1**	**24**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point				
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Identification of high risk group**	**1**	**25**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Chemo prophylactic agents**	**1**	**26**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Geriatric dentistry**	**1**	**27**
For short, semester, annual and final exams. For laboratory practical	Theoretical lecture using power point	**prevention**	**Dental health of disable and medically compromised child**	**1**	**28**

exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Health education and motivation**	**1**	**29**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prevention**	**Uses of laser in dentistry**	**1**	**30**

.11Infrastructure	
• **Primary Preventive Dentistry by Harris NO Garcia-GodoyF-NatheCN 8th Ed. (20014)** • **Comprehensive preventive dentistry (2012) Edited by Hardy Limeback** • **Dental caries, the disease and clinical management. Olefejerslkov and Edwina kidd., 2nd edition , black well, 2008**	1 Required textbooks
Reports published on the college website	2 Main references (sources)
College website	

12 Curriculum Development Plan
-Developing the curriculum content by deleting, adding and replacing.

Clinical requirements

Clinical requirement

No	Title	hours
1	Diagnosis and treatment planning	2
2	Diagnosis and treatment planning	2
3	Preliminary medical and dental history,Clinical examination , Radio graphic examination	2
4	Preliminary medical and dental history,Clinical examination , Radio graphic examination	2
5	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants	2
6	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants	2
7	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion	2
8	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion	2
9	Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials	2
10	Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials	2
11	Trauma management in anterior teeth	2

12	Trauma management in anterior teeth	2
13	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material	2
14	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material	2
15	Pulp therapy for primary dentition	2
16	Pulp therapy for primary dentition	2
17	Management of simple cases of dental anomalies and other developmental defects	2
18	Management of simple cases of dental anomalies and other developmental defects	2
19	Maintenance of pulp vitality by use of regenerative materials and Root canal treatment for anterior non vital teeth	2
20	Maintenance of pulp vitality by use of regenerative materials and Root canal treatment for anterior non vital teeth	2
21	Extraction for non restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment	2
22	Extraction for non restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment	2
23	Management of molar incisor hypomineralization MIH	2
24	Behavior management for young patients	2
25	Behavior management for young patients	2
26	Infection control re-assurance and guidance of students	2
27	Infection control re-assurance and guidance of students	2
28	Tooth colored restoration technique	2
29	Tooth colored restoration technique	2
30	Radiographic prescription and interpretation of results	2
Total		**60**

Higher Education - College of Dentistry University of Maysan	Educational Institution	.1
Dentistry	Department / Centre	.2
Dentistry	Course Name / Code	.3
Weekly	Available Attendance Forms	.4
Two semesters / Fifth stage	Semester / Year	.5
30 theoretical hours 180 practical hours	Number of Study Hours	.6
2024-2023	(Total)	.7

8. Course objectives: Training students on how to examine patients and diagnose the patient's medical condition using modern and currently approved diagnostic methods, then preparing a treatment plan, then starting treatment in a correct scientific manner and using modern materials and methods in manufacturing the complete set by giving theoretical lectures with practice in clinics.

8. Course objectives: Training students on how to examine patients and diagnose the patient's medical condition using modern and currently approved diagnostic methods, then preparing a treatment plan, then starting treatment in a correct scientific manner and using modern materials and methods in manufacturing the complete set by giving theoretical lectures with practice in clinics.

The practice of Prosthodontics has continuous evolved as a result of progress in laboratory and biomaterial science, clinical technologies and multi-disciplinary advancements. There is a tendency of prosthodontists to assess their patient's treatment needs on the basis of morphological consideration

The objectives are to acquire (a) Knowledge (b) Skills and(c) Attitudes.

1. **Willing to applying the current knowledge of dentistry in the best interest of the patients and the community**
2. **Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life,to examine, diagnose and formulate a treatment plan to deal with edentulous conditions by way of providing**

suitable prosthesis

9Learning outcomes, teaching and learning methods and assessment
A- Cognitive objectives
A-1 Training the student on how to examine and diagnose medical conditions.
A-2 Providing important information and treatment steps. A-3 Providing instructions and following up on the process of making the full and flexible denture and other cases such as lining the full denture or repairing it. A-4 Providing the student with skills to deal with patients and taking into account the difference between the environments and psychology of patients. The dentist treats the teeth in the patient's mouth, but rather treats the patient who has teeth in his mouth.
B- Course specific skill objectives B1 - Description of the tools used to treat patients who need the full denture
B2 - Practical training on the steps followed to treat patients who need the full denture.
B3 - Following up on the student during his training in clinics
B.4 Following up on the student while completing the laboratory denture steps. The student is obligated to perform all laboratory work steps inside the student laboratory designated for the fourth and fifth stages and equipped with all materials, supplies and devices.
Teaching and learning methods
Intensive practical training within the teaching dental hospital

Course structure)					
Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours	week|
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	**Occlusion in Complete Denture**	**1**	**1**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	**Occlusion in Complete Denture (Continue)**	**1**	**2**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	**Retention, Stability And Support**	**1**	**3**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	**Retention, Stability And Support (Continue)**	**1**	**4**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	**Post Insertion Problems**	**1**	**5**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	**Post Insertion Problems (Continue)**	**1**	**6**
For short,	Theoretical	prosthetics	**Complications Of Complete Denture**	**1**	**7**

semester, annual and final exams. For laboratory practical exams.	lecture using power point				
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Complications Of Complete Denture (Continue)	1	8
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Immediate Denture	1	9
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Immediate Denture (Continue)	1	10
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Classification system for completely edentulous patients	1	11
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Classification system for completely edentulous patients (Continue)	1	12
For short, semester, annual and final exams. For	Theoretical lecture using power point	prosthetics	Posterior palatal seal area	1	13

laboratory practical exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Single CD	1	14
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Single CD (Continue)	1	15
الامتحانات	محاضرة نظرية	prosthetics	Geriatric dentistry	1	16
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics			
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Maxillofacial Prosthesis	1	17
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Maxillofacial Prosthesis (Continue)	1	18
For short, semester, annual and final exams. For laboratory practical	Theoretical lecture using power point	prosthetics	Residual Ridge resorption	1	19

exams.					
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prosthetics**	**Residual Ridge resorption (Continue**	**1**	**20**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prosthetics**	**Dental implantology**	**1**	**21**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prosthetics**	**Dental implantology (Continue)**	**1**	**22**
For short, semester, annual and final exams. For laboratory practical exams.	Theoretic al lecture using power point	**prosthetics**	**Esthetics in CD**	**1**	**23**
For short, semester, annual and final exams. For laboratory practical exams.	**power point**	**prosthetics**			
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	**prosthetics**	**Characteristics Of Ideal Materials For Dental Implant**	**1**	**24**

For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Copy denture	1	25
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Over Denture	1	26
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Over Denture (Continue)	1	27
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Neutral zone in CD	1	28
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Attachments in over denture	1	29
For short, semester, annual and final exams. For laboratory practical exams.	Theoretical lecture using power point	prosthetics	Attachmentsin over denture (Continue)	1	30

11.البنية التحتية	
Zarb, Hobkirk, Eckert, Jacob et al. 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 2020 John Wiley & Sons, Inc. ▪ Rahn, Ivanhoe and Plummer. Textbook of complete dentures.6th edition 2009 People's Medical Publishing House-USA.	1 Required textbooks
Reports published on the college website	2 Main references (sources)
College website	

12 Curriculum Development Plan
-Developing the curriculum content by deleting, adding and replacing.

Clinical requirements

Lab number	Study unit title	Hours
1	2 cases of upper and lower complete dentures	
2	1 single complete denture against partial denture or natural teeth.	
3	1 immediate or flexible RPD.	
4	1 case repair.	
Total		180

Ministry of Higher Education and Scientific Research / University of Maysan / College of Dentistry	Educational institution
Branch of Orthodontics	
Orthodontics	2 Academic department/center
Weekly	
Two semesters / Fifth stage	3 Course name/code
30 theoretical hours and 120 practical hours	
2023-2024	4 Available forms of attendance
.8Course objectives: Preparing students at a high level of scientific knowledge regarding the diagnosis and treatment of simple cases of malocclusion using the mobile and functional appliance.	

9 Learning outcomes, teaching and learning methods and evaluation

A- Cognitive objectives A-1 Acquire knowledge about methods of diagnosing and treating malocclusion

B- Course specific skill objectives B1 – Specific diagnostic methods

B2 - Know the types of orthodontic devices related to each case.

- 3B

- 4B

Teaching and learning methods

Lectures using point power show (data) program

Training clinics for orthodontics

Evaluation methods

Semester and mid-year exams, final exam and short exams.

C- Emotional and value objectives

C-1 Solve problems related to malocclusion using removable and functional orthodontic devices.

Teaching and learning methods

Theoretical lectures and medical clinics

Evaluation methods

Quiz, semester and mid-year exams and final exam

D - General and transferable skills (other skills related to employability and personal development.)

D-1 Practical preparation of the student to diagnose and treat simple malocclusion cases.

10. بنية المقرر					
Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours	week
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**Orthodontic diagnosis and treatment planning:** **a. Personal data (name, age, gender, race, address, reference and chief complaint, motivation, dental and medical history, prenatal history, postnatal history, and family history)**	**1**	**1**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**b. Clinical examination** **i. General body stature** **ii. Face examination in 3 dimensions (facial proportion, facial divergence, profile analysis)**	**1**	**2**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**iii. skeletal examination (sagittal, vertical and transverse relationship)** **iv. Soft tissue examination: extraoral (lips, nose and nasolabial angle, chin, cheek) and intraoral (tongue, frenum, gingiva, palate, tonsils and adenoids)**		**3**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**v. Occlusion (classification, midline, overjet and overbite)** **vi. Dentition (teeth number, position, dental age, wear, cracks and white spots)** **vii. Temporomandibular joint**	**1**	**4**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**c. Diagnostic aids** **i. orthopantomography (development, advantages, disadvantages, limitations, uses)** **ii. Study models (preparation, advantages, disadvantages, uses)**		**5**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**iii. cephalometrics (development, cephalostat, advantages, disadvantages, limitations, uses, tracing and landmarks)** **iv. Other views: hand wrist and periapical radiographs (skeletal maturity, localization, root resorption)**	**1**	**6**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**v. Photography** **vi. 3D imaging** **d. Consent form**	**1**	**7**
Practical, semester, mid-year and final exams	Theoretical lecture using power	**Orthodontic**	**e. treatment planning: preventive, interceptive, and corrective orthodontics**	**1**	**8**

	point				
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**<u>Incisal overbite and crossbite:</u> a. Deep bite (types, etiology, treatment)**	**1**	**9**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**b. Open bite (types, etiology, treatment, skeletal vs. dental)**	**1**	**10**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**c. Cross bite and scissors bite (types, etiology, treatment, skeletal vs. dental)**	**1**	**11**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**c. Cross bite and scissors bite (types, etiology, treatment, skeletal vs. dental)**	**1**	**12**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**<u>Crowding, spacing, space need:</u> a. Types of crowding (primary, secondary and tertiary)**	**1**	**13**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**b. Space analysis (in permanent and mixed dentition, space required and potential space, methods, Bolton's ratio)**	**1**	**14**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**c. Space creation (molar distalization, expansion, extraction, incisor proclination, proximal stripping, derotation and uprightening)**	**1**	**15**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**d. Closure of spaces (molar protraction, incisor retraction, conservative)**	**1**	**16**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**e. Teeth extraction in orthodontics (Types: enforced, therapeutic, Wilkinson, balancing and compensating extractions) (indications, advantages, disadvantages for each**	**1**	**17**
Practical,			**tooth) f. Serial extraction (definition, indications,**		

semester, mid-year and final exams			procedure, advantages, limitations)		
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Orthodontic	Treatment of common local factors: Including definition, prevalence, etiology, types, effect on occlusion, and treatment (with emphasis maxillary canine): a. Extra-teeth (supernumerary) and missing teeth (hypodontia)	1	18
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Orthodontic	b. Early loss of deciduous teeth(space maintainers and space regainers) c. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis	1	19
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Orthodontic	d. Abnormal eruptive behavior (displacement, transposition) e. Large frenum (labial and lingual)	1	20
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Orthodontic	f. Bad oral habits	1	21
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Orthodontic	Treatment of general factors: a. Class I treatment (etiology, skeletal and soft tissue pattern, dental factors, bimaxillary proclination, treatment methods and time)	1	22
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Orthodontic	a. Class I treatment (etiology, skeletal and soft tissue pattern, dental factors, bimaxillary proclination, treatment methods and time)	1	23
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Orthodontic	b. Class II div. 1 treatment (etiology, skeletal and soft tissue pattern, dental factors, habits, treatment methods and time)	1	24
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Orthodontic	c. Class II div. 2 treatment (etiology, skeletal and soft tissue pattern, dental factors, treatment methods and time)	1	25
Practical, semester, mid-	Theoretical lecture using	Orthodontic	d. Class III treatment (etiology, skeletal and soft tissue pattern, dental factors, treatment methods and time)	1	26

year and final exams	power point				
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**Treatment of adults**	**1**	**27**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**Periodontal problems and orthognathic surgery**	**1**	**28**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**Cleft lip and palate**	**1**	**29**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Orthodontic**	**Embryology, classification, dental effects, treatment**	**1**	**30**
	power point				

11.Infrastructure	
-Contemporary Orthodontics,William R. Proffit Sixth edition Textbook of Orthodontics Singh 2007	1 Required textbooks
Reports published on the college website	2 Main references (sources)
College website	

12 Curriculum Development Plan
-Developing the curriculum content by deleting, adding and replacing.

Clinical requirements

Item	Minimum Requirements	Hours

	Treatment of 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)**	
Total	**The student should receive at least one orthodontic case to enter the final exam**	**120**

Ministry of Higher Education and Scientific Research / University of Maysan	Educational Institution .1
College of Dentistry / Oral Diagnosis Department	2 Academic Department / Center
	Course Name / Code .3
Gum Diseases /	Available Attendance Forms .4
Weekly	Semester / Year .5
Two semesters / Fifth stage	6 Number of Study Hours (Total)
2024-2023	Date of Preparation of this Description .7

8 Course Objectives

- The main objective of the branch is to increase health awareness of oral and dental health among citizens and to diagnose and treat patients suffering from chronic gum diseases by preparing a health cadre of students who will carry out this role after their graduation and serve them in health centers spread throughout Iraq. 2- The educational aspect: by giving lectures, holding scientific seminars and symposia and performing advanced surgical operations for the purpose of training students on this. 3- The therapeutic and preventive aspect: The branch currently covers the diagnosis, treatment and follow-up of all pathological cases related to gum and periodontal diseases referred to the college in addition to the preventive aspect related to this topic.

9- Learning outcomes, teaching and learning methods and evaluation

A- Cognitive objectives A-1 Formulating information in a way that enables students to understand and increase knowledge regarding the diagnosis and treatment of various gum diseases.

A-2 And giving students instructions related to oral and dental care for patients visiting the College of Dentistry.

A-3 Students' knowledge of all means of health awareness For patients to prevent gum and periodontal diseases. B - Course specific skill objectives B1 - Training students to remove internal and external deposits and stains from teeth, scraping the gums and learning to perform some simple surgical interventions B2 -

And giving instructions for oral health care

B3 - Learning the preventive aspect to prevent gum disease and prevent the gum condition from worsening

Teaching and learning methods

data show -1

- educational movies2-

LCD -3A

A-4 Electronic screens A-5 Display cameras

A-6 Smart boards

Evaluation methods

Conducting written, oral and clinical exams and short exams to test the student (Quiz)

C- Emotional and value objectives C--1 The student's ability to solve problems and possess distinctive thinking

C-2 The ability to lead student groups

C-3 Evaluating student achievements

Teaching and learning methods

Following up on the student's thinking style, methods of expression and speed of response using all methods Available for learning

Such as show data, educational films, electronic screens, etc.

Evaluation methods

Preparing reports, conducting practical and theoretical exams, and setting grades

D - General and transferable skills (other skills related to employability and personal development.)

D-1 Professional preparation D-2 Scientific preparation D-3 Cultural preparation

D-4 Employing the acquired skills so that the student becomes a dentist capable of treating patients

10. بنية المقرر					
Evaluation method	Teaching method	Unit name/topic	Theoretical contents	hours	week
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Periodontal examination and diagnosis - Overall appraisal of the patient - Medical history - Dental history: o Chief complaint - Photographic documentation - Clinical Examination: o Extraoral examination o Intraoral examination o Examination of the periodontium o Visual examination of biofilm and calculus o Visual examination of the gingiva - Probing force and angulation - Periodontal examination: o Suppuration o Probing depth o Probing around implants o Bleeding on probing**	periodontic	**1**	**1**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Bone loss and patterns of bone destruction - Bone destruction caused by the extension of gingival inflammation: o Histopathology o Rate of bone loss o Mechanisms of bone destruction - Bone destruction caused by trauma from occlusion - Bone destruction caused by systemic disorders - Factors determining bone morphology in periodontal disease: o Normal variation in alveolar bone o Exostoses o Trauma from occlusion o Buttressing bone formation o Food impaction - Bone destruction patterns in periodontal disease: o Horizontal bone loss o Vertical or angular defects o Osseous craters o Bulbous bone contours o Reversed architecture o Ledges o Furcation involvement**	periodontic	**1**	**2**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Radiographic aids in the diagnosis of periodontal disease - Normal interdental bone - Radiographic techniques - Bone Loss: o Amount o Distribution - Radiographic appearance of periodontal disease o Periodontitis o Interdental craters o Furcation involvement o Periodontal abscess o Clinical probing o Trauma from occlusion - Digital intraoral radiography**	periodontic	**1**	**3**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Advanced diagnosis § - Objectives of diagnosis - Advances in periodontal probing - Generations of periodontal probes:**	periodontic	**1**	**4**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Periodontal response to external forces - Occlusion - Assessment of occlusion - Adaptive capacity of the periodontium to occlusal forces - Trauma from occlusion: o Classification of trauma from occlusion: i-**	periodontic	**1**	**5**

		Acute and chronic			
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Immunology - Innate immunity o Components of innate immunity: i- Saliva: ● Salivary peroxidase system ● Lactoferrin ● Lysozyme ii- Gingival epithelial barrier iii- Gingival crevicular fluid o Pathogen recognition and activation of cellular innate responses: i- Toll like receptors ii- Pro inflammatory cytokines o Cells of innate immunity: i- Neutrophils ii- Macrophages	periodontic	1	6
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Immunology - Adaptive immunity o Characteristics o Cellular elements o Cellular immunity to dental plaque o The humoral response to plaque o Osteo-immunology in periodontal diseases - Therapeutic Strategies	periodontic	1	7
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Tooth mobility - Introduction - Types: o Physiologic mobility o Pathologic mobility - Directions of movement: o Horizontal o Vertical - Factors influencing tooth mobility - Classification of tooth mobility - Initial & secondary tooth mobility - Sign & symptoms	periodontic	1	8
Practical, semester, mid-year and final exams	Theoretical lecture using power point	Epidemiology of periodontal diseases - Introduction: The need for epidemiology - Measuring the occurrence of conditions or diseases: 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: o Randomized controlled trials o Cohort studies o Case–controlstudies - Suspected modifiable causative factors for periodontal disease: o Tobacco smoking o Nutrition o Dental plaque	periodontic	2	9
					10
نصف السنة و النهائي	Theoretical lecture using power point	Determination of prognosis - Definitions - Types of prognosis - Overall versus individual tooth prognosis - Detrimental factors: o Overall clinical factors: i. Patient age ii. Disease severity iii. Biofilm control iv. Patient compliance o Systemic and environmental factors: i. Smoking ii. Systemic disease or condition iii. Genetic factors iv. Stress o Local factors i. Biofilm and calculus ii. Subgingival restorations	periodontic		10
Practical, semester, mid-year and final exams	Theoretical lecture using power point	disciplines Restorative interrelationships - Biologic considerations: o Margin placement and biologic width o Biologic width evaluation o Margin placement guidelines o Marginal fit o Crown contour - Aesthetic tissue management: o Managing interproximal embrasures o Pontic design o Correcting	periodontic	2	11

		open gingival embrasures Periodontal – orthodontic interaction - Orthodontic tooth movement in adults with periodontal tissue breakdown - Orthodontic treatment considerations - Periodontal surgery associated with o			
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Periodontal surgery. General principles - Rationale for periodontal surgery - Indications - Contraindication - Surgical instruments o Excisional and incisional instruments i- Periodontal knives (gingivectomy knives) ii- Interdental knives iii- Surgical blades**	periodontic	**2**	**12**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Sonic and ultrasonic instrumentation and irrigation - Power-driven instruments: overview - Mechanism of action of power scalers - Type of power instruments - Mechanized instruments vs manual instruments - Clinical outcomes of power-driven instruments: o Special considerations o Root surface roughness o Aerosol production o Cardiac pacemakers - Principles of instrumentation - Power-driven devices and COVID-19-associated limitations - Irrigators: o Mechanism of action of irrigate**	periodontic	**1**	**13**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Gingivectomy and local excision - Gingivectomy: o Indications and contraindication o Advantages and disadvantages o Surgical procedure - Gingivoplasty - Gingival curettage - Periodontal dressings (Periodontal Packs) o Zinc oxide–eugenol dressing o Non-eugenol dressing - Postoperative instructions - Management of postoperative pain**	periodontic	**2**	**14**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Flap surgery - Objectives, indication, and contraindications - Flap techniques: § o Modified Widman flap o Undisplaced flap**	periodontic	**1**	**15**
Practical, semester, mid-year	Theoretical lecture using power point	**Mucogingival and aesthetic surgery - Objectives - Techniques to increase attached gingiva: o Gingival augmentation apical to recession: i- Free gingival graft ii- Free connective tissue graft iii- Apically displaced flap § o Gingival**	periodontic	**1**	**16**

and final exams		**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: o Frenectomy and frenotomy: i- Procedure - Techniques to improve aestheti**			
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Furcation: involvement and treatment - Introduction - Anatomy of furcation area: o Root complex o Root trunk o Root cone o Furcation entrance - Local anatomic factors - Classification of furcation involvement - Diagnosis: o Clinical o Radiographic analysis - Differential diagnosis: o Pulpal pathologi**	periodontic	**1**	**17**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Laser therapy§ - Laser physics and biologic interactions - Laser Types: o Diode Laser o Neodymium:Yttrium-Aluminum-Garnet Laser o Erbium:Yttrium-Aluminum-Garnet Laser o Er,Cr:YSGG Laser o CO2 Laser - Laser applications in periodontics: o Aesthetic and pre-prosthetic surgeries o Nonsurgical periodontal therapy: i- Lasers in the management of periodontitis ii- Lasers in the management of peri-implantitis - Advantages and disadvant**	periodontic	**2**	**20**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Locally delivered, controlled-release antimicrobials - Objectives - Types: o Chlorhexidine-based products: i- Chlorhexidine chip ii- PerioCol-CG iii-Chlo-Site o Doxycycline-based products: i- Ligosan slow release ii- Doxycycline gel o Periodontal Plus AB o Minocycline Microspheres - Rationale for local delivery and controlled release - Clinicalsignificance - Clinical indications: o Adjunctive therapy o Surgical therapy o Peri-implantiti**	periodontic	**2**	**21**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Management of medically compromised patients - Cardiovascular diseases: o Hypertension o Angina pectoris o Myocardial infarction o Previous cerebrovascular accident o Congestive heart failure o Cardiac pacemakers o Infective endocarditis - Renal disease**	periodontic	**1**	**22**

Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Management of medically compromised patients - Endocrine/metabolic disorders: o Diabetes mellitus o Thyroid disorders o Adrenal Insufficiency - Pregnancy - Hemorrhagic disorders - Blood dyscrasias - Liver diseases - Neurologic Disorders: o Epilepsy - Infectious diseases: o COVID-19**	periodontic		**23**
Practical, semester, mid-year and final exams	Theoretical lecture using power point		periodontic		**24**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Regenerative periodontal therapy - Regenerative capacity of bone cells - Regenerative capacity of gingival connective tissue cells - Regenerative capacity of periodontal ligament cells**	periodontic	**1**	**25**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Reconstructive surgical techniques: o 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)**	periodontic	**1**	**26**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**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**	periodontic	**1**	**27**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Oral implantology Peri-implant anatomy and Peri-implant diseases classification - Introduction - Epithelial structure around natural tooth - 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 ging**	periodontic	**1**	**28**
Practical, semester, mid-year and final exams	Theoretical lecture using power point	**Implant-related complications and failure - Definitions of implant survival and success - Types and prevalence of implant complications - Surgical complications: o Hemorrhage and hematoma o Neurosensory disturbances o Implant malposition - Biologic Complications: o Inflammation and proliferation o Dehiscence**	periodontic	**1**	**29**

		and recession o Peri-implantitis and bone loss o Implant loss or failure - Prosthetic or mechanical complications: o Screw loosening and fracture o Implant fracture o Fracture of restorative materials - Aesthetic and phonetic complications: o Aesthetic complications o Phonetic problems			
Practical, semester, mid-year and final exaInfrastructurems	Theoretical lecture using power point	**Oral implantology Supportive implant treatment - Rationale for supportive implant treatment - Examination of implants o Peri-implant probing o Microbial testing o Stability measures o Implant percussion o Radiographic examination - Assessment of peri-implant health o Evaluation of biofilm control o Evaluation of peri-implant health and disease o Evaluation of implant osseointegration o Evaluation of implant restorations - Implant maintenance o Methods for patient oral hygiene o Methods for professional recall maintenance - Treatment of peri-implant diseases o Peri-implant mucositis o Peri-implantitis - Referral of patients to the periodontist**	periodontic	**1**	**30**

.Infrastructure	
Newman and Carranza's Clinical Periodontology thirteen edition	1 Required textbooks
Reports published on the college website	2 Main references (sources)
College website	

12 Curriculum Development Plan
-Developing the curriculum content by deleting, adding and replacing.

B- Clinical requirement

Credit hours required	Details
3 h/week (90 h/year)	**Clinical:** - 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)

Research project

Research project	1hr./ week
Credits	Theory : 2

ت	اسم المادة)research method(	عدد المحاضرات
1	statistics	3
2	Medical research ethics	2
3	Biosafety	2
4	Designing research	3
5	Citation in academic writing	3
6	Planning a research protocol	2
	المجموع	15

Summary: Fifth Year
Total Theories - Hours/ Week: 9
Total Theories - Hours/ year: 9x30= 270

Total Practical Hours/ Week: 35
Total Practical Hours/ year: 35x30= 1050

Total Hours / Year: 1320
Total credits: 52
Total credits for the five years : 214