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

Academic Program and Course Description Guide

2024

Introduction:

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

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

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

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

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.
Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.
Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.
Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.
Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.
Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.
Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.
Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form
Faculty/Institute: Kut University College
Scientific Department: Department of Dentistry
Final Certificate Name: Bachelor of Dentistry and Maxillofacial Surgery
Academic System: Annual study system
Description Preparation Date: 7/5/2024
File Completion Date: 7/5/2024

The file is checked by: Dr. Ali Saad Alwan
Department of Quality Assurance and University Performance
Director of the Quality Assurance and Performance Evaluation Division:
Date:
Signature:

م.د. علي سعد علوان

Approval of the Dean

Description of the Academic Programme

This description of the academic programme provides a brief account of the most important characteristics of the programme and the learning outcomes expected by the student to achieve. It highlights on whether they have made the most advantages of the opportunities available. It is accompanied by a description of each academic course within the programme.

1. Educational Institution	Kut University College
2. University Department \ Centre	Department of Dentistry
3. Name of Academic Programme	Dentistry
4.The name of the final certificate	Bachelor's degree in Oral, Maxillofacial and Dental Medicine and Surgery
5. Academic Study System	Yearly
6. Approved Accreditation Programme	
7. Other External Influences	Academic Training Courses to develop the professional skills of students /summer training courses for two years
8. Preparation Date of this Description	2024-2023.

9. Objectives of the Academic Programme

The Department of Dentistry was established in 2018 and aims at preparing medical cadres specialised in Oral, Maxillofacial and Dental Medicine and Surgery at a distinguished scientific and professional level. The faculty has a special dental teaching hospital, where students are clinically trained in modern clinics and in all academic disciplines of dentistry (Oral, Maxillofacial and Dental Medicine and Surgery, prosthodontics, pedodontics and preventive dental medicine, orthodontics, dental plastic surgery, periodontics and oral diagnosis) using the latest techniques, in addition to delivering lectures and teaching the students in various scientific and applied laboratories, and the duration of the study in the faculty is five years.

10. Programme outputs and teaching, learning and assessment methods

(A) Cognitive Objectives (Knowledge and Understanding)

A.1- students gain knowledge of scientific and medical terminology used in dentistry and theoretical subjects.

A.2- student familiarises with different types of materials and equipment used in the field of dentistry.

A.3- developing students confidence to deal with all types of patients.

A.4- developing students capacity to deal with different treatment situations.

A.5- promoting the principles of participation of a group of students to discuss a pathological condition and how to treat it.

A.6- providing students with full knowledge for preparing an integrated treatment plan for patients.

B—Programme Skill Objectives

B.3- Promoting the ethics of the profession and dealing of patients by the

graduates B.2. Students acquire different therapeutic skills

B.1. Promoting the principle of lifelong learning in order to continue professional development.

Methods of Teaching and Learning

- Lecturing.
- Providing students with lectures on the faculty site.
- Instructional films.
- Monitors and digital cameras.
- Using instructional models.
- Academic training courses and workshops.
- Applied clinical education.
- Aggregation of students

Assessment Methods

- Theoretical tests.
- Oral tests.
- Laboratory practical tests.
- Mannequin process tests.
- Practical tests on patients.
- Reports and studies

C—Emotional and Moral Targets

C1—Thinking Skill depends on student ability (let think about thinking ability). The goal of this skill is to make students to believe what is concrete (student capacity) to understand when, what and how to think and improve their ability to think reasonably.

C2—Critical thinking skill that aims to pose a problem, analyse it logically and reach the solution required.

C 3—Student awareness of the need to balance freedom and responsibility.

C4—Making the right decision for the benefit of the patient and based on logical reasoning.

Methods of Teaching and Learning

– Lectures that assess student research and teaching them ways to confront and solve problems.
– Following up the way student thinks, how they make expression and how quickly they respond.
– Laboratory experiments.
– Self-study.

Assessment Methods

– Theoretical tests
– Practical tests
– Reports and studies.

11. Programme Structure

Level\ Year	Course Name	Course Code	Approved Units
First	(Human Anatomy)	AN101	4
	(Medical Terminology)	MT102	2
	(Computer Sciences)	COS103	2
	(Dental Anatomy)	DTA104	6
	Human Rights and Democracy	HUR105	2
	(Medical Chemistry)	CHM106	6
	(Medical Physics)	PHY107	6
	(Biology)	BIO108	6
	(Arabic Language)	ARB102	1
	(English Language)	EL109	1
Second	(Dental Material)	DBM209	4
	(Prosthodontics)	PRS210	6

11. Programme Structure			
Level\ Year	**Course Name**	**Course Code**	**Approved Units**
Second	(Biochemistry)	CHB212	6
	(General Histology)	GHT201	6
	(General Physiology)	PHS213	6
	(Oral Histology)	OHT215	4
	(Anatomy)	ANT201	4
	(Biosafety &Security)	BS216	0.5
Third	(Microbiology)	MB316	6
	(Pharmacology)	PHG317	6
	(Community Dentistry)	CM318	4
	(Conservative dentistry)	RSD319	8
	(Dental Radiology)	ORR320	4
	(General Pathology)	GRP321	6
	(Oral Surgery)	OS322	4
	(Prosthodontics)	PRS310	4

11. Programme structure			
Level\year	**Course name**	**Course code**	**Approved units**
Fourth	(General Medicine)	GMD423	4.5
	(General Surgery)	GSR424	4.5
	(Oral Surgery)	OS422	7
	(Conservative Dentistry)	RSD419	7
	(Oral Pathology)	OPT425	7
	(Orthodontic)	ORT426	7
	(Pedodontics)	PDS427	2
	(Periodontics)	PER428	4.5
	(Prosthodontics)	ORS410	4.5
Fifth	(Conservative Dentistry)	RSD519	7
	(Oral Medicine)	OMD529	4.5
	(Oral Surgery)	OS522	7
	(Pedodontics)	PDS530	3.25
	(Prevention)	PD531	3.25
	(Prosthodontics)	PRS510	7
	(Orthodontics)	ORT526	4.5
	(Periodontics)	PER528	4.5

12. Certified certificates and hours

The first stage requires certified (750 hours) and (36units)

The second stage requires certified (915 hours) and (42.5 units)

The third stage requires certified (900 hours) and (42 units)

The fourth stage requires certified (1140 hours) and (48 units) plus (208 hours) summer training

Total hours for the fourth stage are (1348 hours)

The fifth stage requires certified (1050 hours) and (45 units) plus (224 hours) summer training

Total hours for the fifth stage are (1274 hours)

Bachelor's degree in Oral, Maxillofacial and Dental Medicine and Surgery requires (5112) certified hours for all five years of study.

13. Plan your personal development

Negotiation and persuasion: The student can influence, persuade, discuss and reach agreements.

Leadership: The student must lead, motivate and guide others.

Independence at work: The student can take responsibility and work independently under different circumstances.

4. Acceptance criterion (establishment of regulations on admission to the faculty or institute)

Admission criteria include students with a certain cumulative rate according to the central admission system, as well as students with physical, mental and social capacity 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, and the ability to meet challenges, the ability to work with people and the ability to work independently.

1. Top sources of information about the programme

1. Faculty and University website.
2. University Guide.
3. Books and scientific resources of the faculty.

Curriculum Skills Chart

Please indicate the boxes corresponding to the individual learning outcomes from the academic course being evaluated

				Required learning outcomes from the academic course																		
Year \Level	Academic Course Code	Academic Course Name	Basic or Optional	Knowledge and understanding				Programme Skill Objectives				Thinking Skills				General and gained skills (or) other skills related to employability and personal development						
				A 1	**A2**	**A3**	**A 4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**	**D1**	**D2**	**D3**			**D4**
First Year	AN101	Human Anatomy	**Basic**	√	√			√	√	√	√	√	√	√	√	√	√	√			√
	MT102	Medical Terminology	**Basic**	√	√			√	√	√	√	√	√	√	√	√	√	√			√
	COS103	Computer Sciences	**Basic**	√	√			√	√	√	√	√	√	√	√	√	√	√			√
	DTA104	Dental Anatomy	**Basic**	√	√			√				√	√			√	√				
	HUR105	Human Rights and Democracy	**Basic**	√	√			√	√			√	√			√					
	CHM106	Medical Chemistry	**Basic**	√	√	√	√	√	√	√		√	√	√	√	√	√	√			√
	PHY107	Medical Physics	**Basic**	√	√	√	√	√	√			√	√	√	√	√					
	BIO108	Biology	**Basic**	√	√	√	√	√	√	√		√	√	√	√	√	√	√			√
	EL109	English Language	**Basic**	√	√			√	√	√		√	√								

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				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**	**D1**	**D2**	**D3**	**D4**
	DBM209	Dental Material	**Basic**	√	√	√		√	√			√	√			√			
	PRS210	Prosthodontics	**Basic**	√	√			√	√			√	√	√	√				
Second Year	CHB212	Biochemistry	**Basic**	√	√	√	√	√	√	√		√	√	√	√	√	√	√	√
	GHT201	General Histology	**Basic**	√	√	√		√	√			√				√	√	√	
	PHS213	General Physiology	**Basic**	√	√			√				√	√			√			
	OHT215	Oral Histology	**Basic**	√	√			√	√	√		√	√			√	√		
	ANT201	Anatomy	**Basic**	√	√			√	√	√	√	√	√	√	√	√	√	√	√
	BS216	Biosafety &Security	**Basic**	√	√	√		√	√	√	√	√	√	√	√	√	√	√	√

Curriculum Skills Chart																				
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				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**	**D1**	**D2**	**D3**	**D4**
Third Year	MB316	Microbiology	**Basic**	√	√	√	√	√	√	√		√	√			√			
	PHG317	Pharmacology	**Basic**	√	√	√	√	√	√			√	√			√			
	CM318	Community Dentistry	**Basic**	√	√	√		√	√	√		√	√	√		√	√	√	√
	RSD319	Conservative dentistry	**Basic**	√	√			√	√			√	√			√			
	ORR320	Dental Radiology	**Basic**	√	√	√	√	√	√	√		√				√			
	GRP321	General Pathology	**Basic**	√	√	√		√	√	√		√				√			
	OS322	Oral Surgery	**Basic**	√	√	√		√	√	√		√				√			
	PRS310	Prosthodontics	**Basic**	√				√	√			√	√	√	√	√			

Curriculum Skills Chart																			
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Year \Level	Academic Course Code	Academic Course Name	Basic or Optional	Knowledge and understanding				Programme Skill Objectives				Thinking Skills				General and gained skills (or) other skills related to employability and personal development			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**	**D1**	**D2**	**D3**	**D4**
Fourth Year	GMD423	General Medicine	**Basic**	√	√	√		√	√			√				√			
	GSR424	General Surgery	**Basic**	√	√	√		√	√			√				√			
	OS422	Oral Surgery	**Basic**	√	√	√	√	√	√	√		√				√			
	RSD419	Conservative Dentistry	**Basic**	√	√	√		√	√			√	√			√			
	OPT425	Oral Pathology	**Basic**	√	√	√		√	√	√		√				√			
	ORT426	Orthodontic	**Basic**	√	√	√		√				√				√			
	PDS427	Pedodontics	**Basic**	√	√	√		√	√	√		√	√	√		√	√	√	√
	PER428	Periodontics	**Basic**	√	√	√		√	√	√		√	√	√		√	√	√	√
	PRS410	(Prosthodontics)	**Basic**	√	√	√		√	√	√		√	√	√	√	√			

Curriculum Skills Chart

Please indicate the boxes corresponding to the individual learning outcomes from the academic course being evaluated

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Year \Level	Academic Course Code	Academic Course Name	Basic or Optional	Knowledge and understanding				Programme Skill Objectives				Thinking Skills				General and gained skills (or) other skills related to employability and personal development			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**	**D1**	**D2**	**D3**	**D4**
Fifth Year	RSD519	Conservative Dentistry	**Basic**	√	√	√	√	√	√	√		√	√			√			
	OMD529	Oral Medicine	**Basic**	√	√	√		√	√	√		√				√			
	OS522	Oral Surgery	**Basic**	√	√			√	√	√	√	√	√			√			
	PDS530	Pedodontics	**Basic**	√	√	√		√	√	√		√	√	√	√	√	√	√	√
	PD531	Prevention	**Basic**	√	√	√		√	√	√		√	√						
	PRS510	Prosthodontics	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√	√			
	ORT526	Orthodontics	**Basic**	√				√	√			√				√			
	PER528	Periodontics	**Basic**	√	√	√		√	√	√		√	√	√		√	√	√	√

Vision:

- Creating and supporting areas of scientific research to find appropriate solutions to oral and dental health problems in society.Providing distinguished treatment areas for patients in various specialties of oral and dental medicine, including dental implants... and using modern technologies in the fields of treatment and diagnosis. Providing medical and technical consultations to various sectors of the state.

Message:

- Based on the need to provide nationally qualified dentists and in awareness of the pioneering role that the college must play in serving the community, the college has been keen to occupy a distinguished position in the field of dental sciences.

Academic Course Description

Review of the Performance of Higher Education Institutions (Review of the Academic Programme)

Academic Course Description

This academic course description provides a brief of the most important characteristics of the academic course and the learning outcomes, the student is expected to achieve, highlighting whether they have made the most advantages of the learning opportunities available and they must be linked to the description of the programme.

1. Educational Institution	Kut University College
2. University Department/Centre	Department of Dentistry
3. Name/Symbol of Academic Programme	Human AnatomyAN101
4. The name of the final certificate	Anatomy of a human body
5. Academic Study System	Lectures , laboratories and clinics
6. Semester/Year	The first and second semesters of the first stage
7. Number of hours for academic course (total)	30 theoretical hours and 60 practical hours
8. Preparation Date of this Description	2024-2023.

9. Objectives of the Academic Programme:

The scientific preparation of students in relation to the human anatomy, especially, regarding to the anatomy of the head, neck and its relationship to his or her precise competence as a dentist.

10. Programme outputs and teaching, learning and assessment methods

A- Cognitive Objectives (Knowledge and Understanding)

A.1 -Acquiring knowledge about human anatomy
A.2 -Focusing on head and neck anatomy A-1- Their relationship to his/her competence as a dentist

B- Programme Skill Objectives

B 1-Relationship of human anatomy to student work as a dentist
B 2-Gaining full knowledge of the organs of the human body
B3-

Methods of Teaching and Learning

- Lectures using (Power Point) (Data Show)
- Instructional films.
- Providing students with links and some websites to use them.
- Practical laboratory on anatomical models

Assessment Methods

- Theoretical Examinations.
- Practical Examinations.
- Oral Examinations.
- Quiz Examinations.

C-Thinking Skills

C.1- Strengthening thinking skills through problem-solving learning.
C. 2- Gaining the basic principles of the learning curriculum.
C.3 - Developing student capacity for discussion and dialogue.
C.4 - Encouraging students to connect knowledge of human anatomy to their work as a dentist

Methods of Teaching and Learning

- Lectures that research and teach students about ways to confront and solve problems.
- Keep track of how students think, how they make expression, and how quickly they respond.
- Practical lessons on anatomical models.

Assessment methods

- Theoretical examinations.
- Practical examinations.

D- General and gained skills (Other skills related to employability and personal development)

D-1- Student preparation in practice in terms of applying knowledge gained in human anatomy to their work.
D.2- Considering problem solving.
D.3- Education of professional ethics.
D.4- Student skills to become a dentist capable of treating patients
D.5- Development of student capacity to deal with multiple means to learn.

11. Academic Course Structure (theoretical side)

Week	Hours	Academic Course Glossary	Academic Course Name	Teaching Method	Assessment Method
1	1	• Introduction to Human anatomy • Descriptive Anatomic Terms	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
2	1	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
3	1	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
4	1	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
5	1	Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
6	1	Skeletal system of the body: Skull Cranial Bones:	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
7	1	Skeletal system of the body: Skull Cranial Bones:	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations

Week	Hours	Academic Course Glossary	Academic Course Name	Teaching Method	Assessment Method
8	1	Skeletal system of the body: Skull: Facial Bones:	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
9	1	Skeletal system of the body: Skull: Facial Bones:	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
10	1	External Views of the Skull	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
11	1	External Views of the Skull	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
12	1	The Cranial Cavity • Major Foramina and Fissures locations and structures pass through • Neonatal Skull	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
13	1	The Cranial Cavity • Major Foramina and Fissures locations and structures pass through • Neonatal Skull	General anatomy	theoretical lec-ture sing Power Point	Short theoretical examinations and quarterly, half-year and final examinations
14	1	• Skeleton of the Orbital Region, Openings into the Orbital Cavi-ty • Skeleton of the External Nose, nasal cavity, Paranasal Sinuses • Auditory ossicles • Hyoid bone	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations

Week	Hours	Academic Course Glossary	Academic Course Name	Teaching Method	Assessment Method
15	1	• Skeleton of the Orbital Region, Openings into the Orbital Cavity • Skeleton of the External Nose, nasal cavity, Paranasal Sinuses • Auditory ossicles • Hyoid bone	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
16	1	The Vertebral Column	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
17	1	The Vertebral Column	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
18	1	• Structure of the Thoracic Wall • Joints of the Chest Wall • Suprapleural Membrane • Diaphragm • Surface Anatomy	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
19	1	• Structure of the Thoracic Wall • Joints of the Chest Wall • Suprapleural Membrane • Diaphragm • Surface Anatomy	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations

Week	Hours	Academic Course Glossary	Academic Course Name	Teaching Method	Assessment Method
20	1	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
21	1	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
22	1	Pericardium, Heart, Large arteries, veins and nerves of thorax	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
23	1	Pericardium, Heart, Large arteries, veins and nerves of thorax	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
24	1	Pericardium, Heart, Large arteries, veins and nerves of thorax	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
25	1	Bones of the Shoulder (Pectoral girdle) girdles. Bones of the Upper extremities.	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
26	1	• Bones of the Shoulder (Pectoral girdle) girdles. • Bones of the upper extremities.	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
27	1	• Bones of the Pelvic girdle. • Bones of the Lower extremities.	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations

Week	Hours	Academic Course Glossary	Academic Course Name	Teaching Method	Assessment Method
28	1	• Bones of the pelvic girdle. • Bones of the lower extremities.	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
29	1	Abdominal cavity and organ	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations
30	1	Abdominal cavity and organ	General anatomy	A theoretical lecture using Power Point	Short theoretical examinations and quarterly, half-year and final examinations

11. Academic Course Structure (practical side)

Week	Hours	Academic Course Glossary	Academic Course Name	Teaching Method	Assessment Method
1	2	• Introduction to human anatomy • Descriptive Anatomic Terms	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
2	2	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
3	2	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
4	2	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
5	2	Basic Structures: Nervous System, Mucous Membranes,	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations

Week	Hours	Academic Course Glossary	Academic Course Name	Teaching Method	Assessment Method
6	2	Skeletal system of the body: Skull: Cranial Bones	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
7	2	Skeletal system of the body: Skull: Cranial Bones	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
8	2	Skeletal system of the body: Skull: Facial Bones	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
9	2	Skeletal system of the body: Skull: Facial Bones	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
10	2	External Views of the Skull	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
11	2	External Views of the Skull	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
12	2	• The Cranial Cavity. • Major foramina and fissures locations and structures pass through • Neonatal Skull	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
13	2	• The Cranial Cavity. • Major foramina and fissures locations and structures pass through • Neonatal Skull	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations

Week	Hours	Academic Course Glossary	Academic Course Name	Teaching Method	Assessment Method
14	2	• Skeleton of the Orbital Region, Openings into the Orbital Cavity. • Skeleton of the External Nose, nasal cavity, Paranasal Sinuses. • Auditory ossicles. • Hyoid bone	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
15	2	• Skeleton of the Orbital Region, Openings into the Orbital Cavity. • Skeleton of the External Nose, nasal cavity, Paranasal Sinuses. • Auditory ossicles. • Hyoid bone	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
16	2	The Vertebral Column	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
17	2	The Vertebral Column	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
18	2	• Structure of the Thoracic Wall. • Joints of the Chest Wall. • Suprapleural Membrane. • Diaphragm. • Surface Anatomy	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations

Week	Hours	Academic Course Glossary	Academic Course Name	Teaching Method	Assessment Method
19	2	• Structure of the Thoracic Wall. • Joints of the Chest Wall. • Suprapleural Membrane. • Diaphragm. • Surface Anatomy	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
20	2	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
21	2	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
22	2	Pericardium, heart, large arteries, veins and nerves of thorax	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
23	2	Pericardium, heart, large arteries, veins and nerves of thorax	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
24	2	Pericardium, heart, large arteries, veins and nerves of thorax	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
25	2	Bones of the Shoulder (Pectoral girdle) girdles. Bones of the Upper extremities	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
26	2	Bones of the Shoulder (Pectoral girdle) girdles. Bones of the Upper extremities	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations

Week	Hours	Academic Course Glossary	Academic Course Name	Teaching Method	Assessment Method
27	2	• Bones of the Pelvic girdles. • Bones of the Lower extremities	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
28	2	• Bones of the Pelvic girdles. • Bones of the Lower extremities	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
29	2	Abdominal cavity and organ	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations
30	2	Abdominal cavity and organ	General anatomy	Use anatomical models as well as display video lectures	Quarterly, half-year and final practical and oral examinations

12. Infrastructure

Required bibliography: • The basic texts • Course book • Other	• Snell's Clinical anatomy 7th edition. • Netter's head and neck anatomy for dentistry 2nd edition 2012.
Special requirements (including, for example, workshops, seminars, software and websites)	Laboratories and workshops as well as the use of published lectures on the faculty website
Social services (for example, guest lesson and professional training, and practical courses)	The study includes practical training on anatomical models

Laboratory sessions

No.	Title of the sessions	Hours
1	• Introduction to Human Anatomy • Descriptive Anatomic Terms	2
2	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	2
3	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	2
4	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	2
5	Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	2
6	Skeletal system of the body: Skull: Cranial Bones	2
7	Skeletal system of the body: Skull: Cranial Bones	2
8	Skeletal system of the body: Skull: Facial Bones	2
9	Skeletal system of the body: Skull: Facial Bones	2
10	External Views of the Skull	2
11	External Views of the Skull	2
12	• The Cranial Cavity • Major Foramina and Fissures locations and structures pass through • Neonatal Skull	2
13	• The Cranial Cavity • Major Foramina and Fissures locations and structures pass through. • Neonatal Skull	2
14	• Skeleton of the Orbital Region, Openings into the Orbital Cavity • Skeleton of the External Nose, nasal cavity, Paranasal Sinuses • Auditory ossicles Hyoid bone	2
15	• Skeleton of the Orbital Region, Openings into the Orbital Cavity • Skeleton of the External Nose, nasal cavity, Paranasal Sinuses • Auditory ossicles • Hyoid bone	2
16	The Vertebral Column	2
17	The Vertebral Column	2
18	• Structure of the Thoracic Wall • Joints of the Chest Wall • Suprapleural Membrane • Diaphragm • Surface Anatomy	2

No.	Title of the sessions	Hours
19	• Structure of the Thoracic Wall • Joints of the Chest Wall • Suprapleural Membrane • Diaphragm • Surface Anatomy	2
20	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	2
21	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	2
22	Pericardium, Heart, Large arteries, veins and nerves of thorax	2
23	Pericardium, Heart, Large arteries, veins and nerves of thorax	2
24	Pericardium, Heart, Large arteries, veins and nerves of thorax	2
25	• Bones of the Shoulder (Pectoral girdle) girdles • Bones of the Upper extremities	2
26	• Bones of the Shoulder (Pectoral girdle) girdles • Bones of the Upper extremities	2
27	• Bones of the Pelvic girdle • Bones of the Lower extremities	2
28	• Bones of the Pelvic girdle • Bones of the Lower extremities	2
29	Abdominal cavity and organs	2
30	Abdominal cavity and organs	2
Total		60

13. Educational Institution	Kut University College
14. University Department/Centre	Department of Dentistry
15.Name of Academic Programme/ Code	Medical Terminology / MT102
16. Programme included	Medical Terminology
17.Academic Study System	Lectures
18.Semester/Year	The first and second semesters of the first stage
19.Hours of Study (total)	30 theoretical hours
20.Preparation Date of this Description	2024-2023.

21. Objectives of the Academic Programme

The scientific preparation of the students in relation to the medical terminology, for their study to be able to use and understand all medical terms as dentists.

22. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 - Gaining knowledge of medical terminology
A.2 - Focusing on the terms used during the years of study
A.1 - Focusing on the terms used in dentistry.

B. Programme Skill Objectives

B.1 - Be able to speak in the language of dentists using their own terms.
B.2 – Gaining full knowledge of the medical terminology of dentistry.

Methods of teaching and learning

- Academic Course using lectures (data show) (power point)
- Providing students with some websites to use them.

Assessment methods

- Theoretical exams.
- Oral examinations.
- Quiz examinations.

C-Thinking Skills

C.1 - Strengthening thinking skills through problem-solving learning.
C.2 - Gaining the basic principles of the learning curriculum.
C.3 - Developing student capacity for discussions and dialogues.
C.4 - Encouraging students to connect knowledge of medical terminology to their work as dentists.

Methods of teaching and learning
- Lectures that research and teach students about ways to confront and solve problems. - Keep track of how students think, how they make expression, and how quickly they respond
Assessment methods
- Theoretical exams.
D- General and gained skills (Other skills related to employability and personal development). D1— practically preparing the students for applying knowledge gained in medical terminology in their work. D2—considering solving problems. D3 —teaching professional ethics. D4— Students gained skills to become dentists capable of treating patients. D9— developing students capacity to work with multiple learning means and tools.

23. Course Structure (theoretical side)					
Week	**Hours**	**Academic Course Vocabularies**	**Module/Academic Course name or subject**	**Teaching Method**	**Assessment Method**
1	1	• Define language, Medicine, Dentistry, and a term. • Basic Elements of a Medical Word. • Define the terms word root, combining vowel, combining form, prefix, and suffix. 1. State the rules for construction of the medical words. Roots of medical and dental words. 2. Suffixes: Dental, Surgical, Diagnostic, etc. 3. Suffixes: Adjective, and Noun. 4. Suffixes: Singular versus Plural. 5. Prefixes: Adjective Metric, Numbers, Positions, Time, Directions and Colours • Divide medical words into their component parts. Use multiple words' roots in a compound word.	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
2	1		Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
3	1	• Revision of listing and defining important prefixes that deal with, numbers, colours, positions, and directions. • Learn standard medical and dental terms: Direction of movement, position, and anatomical posture, and planes. Define, spell, and pronounce medical terms used in this lecture.	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
4	1		Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Academic Course Vocabularies	Module/ Academic Course name or subject	Teaching Method	Assessment Method
5	1	• Body structure and organization • Name and elements of the body systems: Cells, tissues, organs, and systems. • Commonly used anatomical descrip-tive and directional terms, planes and regions. Spell, define, and pronounce new terms in this lecture.	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
6	1		Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
7	1	**The Integumentary system** • Definition and parts of this system • Function and disorders. Spell, pronounce, and explain important common terms in this system.	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
8	1	**Gastrointestinal System** • Definition and parts of this system. • Function and disorders. Spell, pronounce, and explain important common terms in this system.	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
9	1		Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
10	1	**Oral and Dental Terminology** • Definition. • Main Branches of Dentistry • Teeth surfaces. • Common conditions that affect the oral cavity. Spell, pronounce, and explain important terms related to each branch in dentistry	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
11	1		Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
12	1		Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Academic Course Vocabularies	Module/Academic Course name or subject	Teaching Method	Assessment Method
13	1		Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
14	1		Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
15	1	**CARDIOVASCULAR SYSTEM** • Definition and parts of this system. • Function and disorders. Spell, pronounce, and explain important common terms in this system.	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
16	1	**Blood, Lymph, and Immune Systems** • Definition and parts of this system. • Function and disorders. Spell, pronounce, and explain important common terms in this system.	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
17	1		Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
18	1	**THE RESPIRATORY SYSTEM** • Definition and parts of this system. • Function and disorders. Spell, pronounce, and explain important common terms in this system.	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Academic Course Vocabularies	Module/Academic Course name or subject	Teaching Method	Assessment Method
19	1	**Skeletal system**	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
20	1	• Definition and parts of this system. • Function and disorders. Spell, pronounce, and explain important common terms in this system.	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
21	1	**Muscular system**	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
22	1	• Definition and parts of this system. • Function and disorders. Spell, pronounce, and explain important common terms in this system.	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
23	1	**Nervous system** • Definition and parts of this system. • Function and disorders. • Spell, pronounce, and explain important common terms in this system.	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
24	1	**Genitourinary System** • Definition and parts of this system. • Function and disorders. • Spell, pronounce, and explain important common terms in this system	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Academic Course Vocabularies	Module/Academic Course name or subject	Teaching Method	Assessment Method
25	1	**Endocrine System** • Definition and parts of this system. • Function and disorders. Spell, pronounce, and explain important common terms in this system.	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
26	1	Special Senses (Taste, touch, smell, sight, and hearing) • Definition and parts of each special sense. • Function and disorders. Spell, pronounce, and explain important common terms in the current lectures.	Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
27	1		Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
28	1		Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
29	1		Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
30	1		Medical Terminology	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

24. Infrastructure	
Required bibliography: • The basic texts • Course book • Other	
Special requirements (including, for example, workshops, seminars, software and websites)	Take advantage of the lectures published on the faculty site
Social services (for example, guest lesson, professional training and practical courses)	The study includes training on the use of dental terms

25. **Educational Institution**	Kut University College
26.**University Department \ Centre**	Department of Dentistry
27.**Name/Code of the Academic Course**	Computer Sciences /COS103
28.**The name of the final certificate**	Computer Sciences
29.**Available Academic Courses**	Laboratories
30.**Academic Study System**	The first and second semesters of the first stage
31.**Number of hours (total)**	60 practical hours
32.**Preparation Date of this Description**	2024-2023.

33. **Objectives of the Academic Programme**:
Introduction into computer science and students learn the performance of computers, supported methods, software and learn using computers in the medical field

34. Programme outputs and teaching, learning and assessment methods

A. <u>Cognitive Objectives (Knowledge and Understanding)</u>

A.1- Teaching the students ways to use the computer

A.2- How to use the software applications

B. **<u>Programme Skill Objectives</u>**

B.1- Teaching students the functions of computer use

B.2- Using Medical computer

Methods of Teaching and Learning

- Educational methods include uses of computers
- Guidance of students on some websites to use them.

Assessment Methods

- Practical examinations
- Short examinations.

C-Thinking Skills

C.1- Enhance thinking skills through problem-solving learning.
C.2 - Gaining the basic principles of the learning curriculum.
C.3 - Developing student capacity for discussion and dialogue.
C.4 - Encouraging students to connect the use of computers and technology to their work of dentists.

Methods of Teaching and Learning

- Lectures that assess student research and instruction on ways to confront and solve problems
- Following up the way the students think, how they make expression and how quickly they respond and react.

Assessment Methods

- Practical examinations

D. General and gained skills (Other skills related to employability and personal development).

D.1 - Students are practically prepared in terms of applying the use of the computer in their work.
D.2 - Considering problem solving.
D.3 – Gaining professional ethics.
D.4 – Skills acquisition of students to become experienced in using information technology. D.5
- Developing student capacity to work with multiple learning tools and means.

35. Academic Course Structure (practical side)

Week	Hours	Academic Course Glossary	Academic Course Name	Teaching Method	Assessment Method
1	2	**Introduction about compute** /Hardware and Software/computer structure/`Floppy magnetic disks	Computer Science	Computer laboratories	Practical examinations
2	2	**Operating systems**/CD- ROM/	Computer Science	Computer laboratories	Practical examinations
3	2	**Create Files &Folders High level programming** language /Constant and variable/Library Function /Arithmetic expression/Type of Monitor /Number of systems	Computer Science	Computer laboratories	Practical examinations
4	2	**Introduction about MS- DOS** Operating systems/DOS drive /Keyboard	Computer Science	Computer laboratories	Practical examinations
5	2	**DOS commands /Internal** Commands/External Commands	Computer Science	Computer laboratories	Practical examinations
6	2	**Introduction about Windows** /A look at Windows 7/Stating Windows XP/Working with a windows Programme	Computer Science	Computer laboratories	Practical examinations
7	2	**Working with files and folders**/ Using My computer	Computer Science	Computer laboratories	Practical examinations
8	2	**Working with Taskbar and Desktop** Using Windows Accessories	Computer Science	Computer laboratories	Practical examinations
9	2		Computer Science	Computer laboratories	Practical examinations

10	2	**A look at Control Panel**	Computer Science	Computer laboratories	Practical examinations
11	2	**Windows Explorer**	Computer Science	Computer laboratories	Practical examinations
12	2	**Libraries**	Computer Science	Computer laboratories	Practical examinations
13	2	**Introduction about Microsoft Word** A look at Microsoft Word /Editing Document	Computer Science	Computer laboratories	Practical examinations
14	2	**Formatting Text**	Computer Science	Computer laboratories	Practical examinations
15	2	**Formatting paragraphs**	Computer Science	Computer laboratories	Practical examinations
16	2	**Proofing documents**	Computer Science	Computer laboratories	Practical examinations
17	2	**Adding Tables**	Computer Science	Computer laboratories	Practical examinations
18	2	**Inserting Graphic Elements**	Computer Science	Computer laboratories	Practical examinations
19	2	**Controlling page appearance**	Computer Science	Computer laboratories	Practical examinations

Week	Hours	Academic Course Glossary	Academic Course Name	Teaching Method	Assessment Method
20	2	**Introduction about Excels** /A Look at Microsoft Excel	Computer Science	Computer laboratories	Practical examinations
21	2	**Modifying A Worksheet** /performing Calculations	Computer Science	Computer laboratories	Practical examinations
22	2	**Formatting a worksheet/** Developing a work book	Computer Science	Computer laboratories	Practical examinations
23	2	**Printing Workbook Contents**/Customizing Layout Introduction about Microsoft Access/ A look at Microsoft Access	Computer Science	Computer laboratories	Practical examinations
24	2	**Printing Workbook Contents**/Customizing Layout **Introduction about Microsoft Access/** A look at Microsoft Access	Computer Science	Computer laboratories	Practical examinations
25	2	**Creating Data tables** /properties of the fields	Computer Science	Computer laboratories	Practical examinations
26	2	**Querying the database**/Designing Forms/Producing reports	Computer Science	Computer laboratories	Practical examinations
27	2	**Introduction into Microsoft Power point**/starting power point	Computer Science	Computer laboratories	Practical examinations
28	2	**Formatting text**/Using graphics and Text	Computer Science	Computer laboratories	Practical examinations
29	2	**Manipulating the slides**/Using Multimedia Elements	Computer Science	Computer laboratories	Practical examinations
30	2	**Power point Management**	Computer Science	Computer laboratories	Practical examinations

36. Infrastructure	
Required bibliography: • The basic texts • Books the Academic Course • Other	Windows 7 Office 2010
Special requirements (including, for example, workshops, seminars, software and websites)	Holding workshops (and seminars) to discuss various topics on computers and software applications
Social services (for example, guest lesson and professional training and practical academic courses)	

1. Educational Institution	Kut University College
2. University Department/Centre	Department of Dentistry
3. The name/code of the Academic Course	Dental Anatomy/ DTA104
4. Programme included	Dental Anatomy (Dentistry)
5. Available Academic Courses	100%
6. Academic Course/Year	Two semesters /first stage
7. Number of hours (total)	30 theoretical hours and 60 practical hours
8. Preparation Date of this Description	2024-2023.

9. Objectives of the Academic Programme

Providing students with a practical, integrated programme by training them a dental carving on wax moulds.

10. Programme outputs and teaching, learning and assessment methods

A. <u>Cognitive Objectives (Knowledge and Understanding)</u>

A.1- Formulating and programming information in such a way as to enable the students to understand it and to increase their knowledge regarding the theoretical and practical aspects

A.2- Introducing the students to the anatomical model of the teeth

A.3-

A.4-

A.5-

A.6-

B. <u>Programme Skill Objectives</u>

B.1 – Providing students a dental carving training on wax moulds based on age-specific measurements

<u>Methods of Teaching and Learning</u>

Data show, lecture, LCD, educational movies and transverse cameras.

Assessment methods

Theoretical, practical (clinical) and quiz exams

C-Thinking Skills

C.1- to be able to solve problems
C.2- to be capable of leadership
C.3-
C.4-

Methods of Teaching and Learning

Theoretical and practical lessons (stimulus and response)

Assessment methods

Examinations

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

D.1- Student preparation in practice in terms of applying knowledge gained in dental anatomy into work
D.2- Student development of methods of discussion and dialogue.

Academic course structure in attachments					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment Method**
1	2	**Introduction** Nomenclature, Heterodont, Diphyodont, The Deciduous Teeth, The Permanent Teeth, Anterior and Posterior Teeth The Jaw	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	2	**Numbering Systems** 1. Universal notation system. 2. Palmer notation system. Crown and Root Dental pulp. Anatomical crown. Surfaces and Ridges	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	**Anatomical Landmarks** Cusp, Tubercle, Cingulum, Ridge, Fossa, Developmental groove, Pit	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	2	**Permanent Maxillary Central Incisor** Characteristic features of incisor's crown Permanent Maxillary Central Incisor Principal identifying features	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	**Permanent Maxillary Lateral Incisor** Principal identifying features (Labial Aspect, Mesial Aspect, Distal Aspect, Lingual Aspect, Incisal Aspect). Variations from the typical form (Anomalies)	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	2	**Permanent Mandibular Incisors Characteristic** features of Permanent mandibular Incisors Permanent Mandibular Central Incisor Principal identifying features Permanent Mandibular Lateral Incisor Principal identifying features Some differences between maxillary and mandibular central incisors Main differences between maxillary central and lateral incisors	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment Method
7	2	**Permanent Canines** General Characteristic Features of the Canines The Permanent Maxillary Canine Principal Identifying Features The Permanent Mandibular Canine Principal Identifying Feature	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	2	**Permanent Maxillary Premolars** Some characteristic features to all posterior teeth Maxillary First Premolar Principal identifying features: Maxillary Second Premolar Principal identifying features	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	2	**Permanent Mandibular Premolars** Mandibular First Premolar Characteristics that resemble those of the mandibular canine. Characteristics that resemble those of the mandibular second premolar. Principal Identifying Features	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	2	**Permanent Mandibular Second Premolar** Principal Identifying Features	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	2	**Permanent Maxillary Molars** Maxillary First Molar Principal Identifying Features Maxillary second Molar	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	2	**Permanent Mandibular Molars** Mandibular First Molar Principal Identifying Features	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	2	**Permanent Mandibular Second Molar Principal** Identifying Features Mandibular Third Molar Principal Identifying Features	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	2	**Tooth Development** Sequential Order of Deciduous Teeth According to their Eruption Times Deciduous Teeth The Importance of Deciduous Teeth Maxillary Deciduous Teeth Mandibular Deciduous Teeth Principal Differences between Deciduous and Permanent Teeth	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	2	**Pulp Cavities** Pulp Cavities of the Maxillary Teeth Pulp Cavities of the Mandibular Teeth	Dental anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Laboratory sessions

Lab. Number	Study Unit Title	Hours
1	Introduction to Dental Anatomy & Carving Instruments	2
2	Numbering systems.	2
3	Practical demonstration of Carving a Cube (1cm*1cm*1cm)	2
4	- Introduction to Anatomical landmarks on Teeth models. - Carving of a cube.	2
5	Description &Carving of the Labial Aspect of P. Max. Right Central Incisor.	2
6	Description &Carving of the Mesial aspect of P. Max. Right Central Incisor.	2
7	Description, Carving & Finishing of the Incisal Aspect of Permanent Max. Right Central Incisor.	2
8	Practical Training of Carving of P. Max. Right Central Incisor	2
9	Practical Exam. Of Carving of P. Max. Right Central Incisor	2
10	Description &Carving of the Labial & Mesial Aspects of P. Max.Right Canine.	2
11	Description, Carving & Finishing of the Incisal Aspect of P. Max. Right Canine.	2
12	Practical Training of Carving of P. Max. Right Canine.	2
13	Practical Exam. of Carving of P. Max. Right Canine.	2
14	Mid-Year Practical Examination of Tooth Carving.	2
15	Description &Carving of the Buccal& Mesial Aspects of P.Max.Right 1st Premolar.	2
16	Description, Carving & Finishing of the Occlusal Aspect of P.Max.Right 1st Premolar.	2
17	Practical Training of Carving of P. Max. Right 1st Premolar	2
18	Practical Exam. Of Carving of P. Max. Right 1st Premolar	2
19	Description &Carving of the Buccal& Mesial Aspects of P.Mand.Right 1st Premolar.	2
20	Description, Carving & Finishing of the Occlusal Aspect of P.Mand.Right 1st Premolar.	2
21	Practical Training of Carving of P. Mand. Right 1st Premolar	2
22	Practical Exam. Of Carving of P. Mand. Right 1st Premolar	2
23	Description &Carving of the Buccal& Mesial Aspects of P.Max.Right 1st Molar.	2
24	Description, Carving & Finishing of the Occlusal Aspect of P. Max. Right 1st Molar.	2

Lab. Number	Study Unit Title	Hours
25	Practical Training of Carving of P. Max. Right 1st molar.	2
26	Practical Exam. of Carving of P. Max. Right 1st molar.	2
27	Description &Carving of the Buccal& Mesial Aspects of P. Mand.Right 1st Molar	2
28	Description, Carving & Finishing of the Occlusal aspect of P.Mand1st Molar/Practical Training of Carving P.Mand 1st molar.	2
29	Practical Examination of Carving of P. Mand. Right 1st molar	2
30	Final Oral & Practical Examination of Tooth carving	2
Total		60

11. Infrastructure	
Required bibliography: • The basic texts • Academic Course books • Other	1. Wheler's dental anatomy, physiology and occlusion, By Major M Ash. 2. Woelfel's dental anatomy, its relevance to dentistry. By Rickne C. Scheid.
Special requirements (including, for example, workshops, training courses, software applications and websites)	Laboratories
Social services (including, for example, webinars, work and field studies)	The study includes practical training on anatomical models

12. Educational Institution	Kut University College
13. University Department \ Centre	Department of Dentistry
14. The name/Code of the Academic Course	Human Rights / HUR105
15. Programme included	
16. Academic Study System	Student attendance is 100% for whole academic year
17. Academic Course/Year	Two semesters of first stage
18. Number of hours (total)	60 theoretical hours
19. Preparation Date of this Description	2024-2023.
20. Objectives of the Academic Programme	
The programme provides a chance for the students to learn their rights and duties. The programme also seeks to promote The cultural education on human rights to building a cohesive society in which justice, freedom and equality are prevailed.	

21. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1- Students learn their rights

A.2- Students learn their duties to the community

B. Programme Skill Objectives

B.1 – Students learn their rights

B.2 – Students learn their duties and commitment towards their community

B.3 -

B.4 -

Methods of Teaching and Learning

Lectures and seminars

Assessment methods

Examinations

C-Thinking Skills

C.1- to be able to solve problem

C.2 –having skills of leadership

C.3 -

Methods of Teaching and Learning

Theoretical lectures

Assessment methods

Examinations

D. General and gained skills (other skills related to engagement and personal development).

D.1- Preparing students scientifically and culturally

D.2 –

-

22. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching method**	**Assessment method**
1	2	**Introduction/First chapter on Human Rights** First subject /Human Rights in ancient civilizations First lesson/human rights in Greek and Egyptian civilizations First Academic Course /Human Rights in Greek Civilization Second Academic Course: Human rights in ancient Egyptian civilization Second lesson/human rights in ancient civilizations	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams
2	2	**Second chapter** /Human rights in the law and religion First Lesson/Human Rights in Christian and Jewish Religion Second Lesson/Human Rights in Islam	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams
3	2	**Third chapter** /Human rights sources First lesson/international sources First Academic Course/ Universal Declaration of Human Rights	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams
4	2	Second Academic Course/ two International Conventions on Human Rights	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams
5	2	Second Academic Course/ National resource First lesson /Declaration of Human Rights and citizens French 26 August 1789	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams
6	2	Second Lesson/ French constitutions and declarations following the proclamation of rights on 1789	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching method	Assessment method
7	2	Third Academic Course/Constitution of Republic of Iraq, since 2005	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams
8	2	Fourth Academic Course /Human Rights guarantees, first discussion/guarantees of human rights at country level First lesson/constitutional rights	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams
9	2	Second Lesson/judiciary rights	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams
10	2	Second Academic Course/Human Rights guarantees in Islam First Lesson /adoption of a dual-responsibility principle in Islamic society Second Academic Course/religious rights on Islamic law	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams
11	2	Third Academic Course/some Islamic regimes of individual and group benefits, and the jurisdiction	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams
12	2	Third Lesson/International human rights guarantees First Academic Course/Charter of the United Nations Second Academic Course/General Association of the United Nations	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams
13	2	Third Academic Course/Economic and Social Council Fourth Academic Course/Council of Women's Rights	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams
14	2	Fourth Academic Course/regional organizations role in the protection of human rights First lesson/ Convention of European Human Rights	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams
15	2	Second Lesson/United States Agreement for human rights Third Lesson/African Agreement on Human and Peoples' Rights Fourth Lesson/Arab Agreement for Human Rights **Fourth chapter** /future of Human Rights First Lesson/ technological progress and its impact on rights and freedoms	Human rights	A theoretical Lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching method	Assessment method
16	2	First Academic Course/political parties and human rights. Second Academic Course/role of information and upbringing	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
17	2	Second Lesson/study and human rights First Academic Course/Privacy and Human Rights Second Academic Course/domination and human rights	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
18	2	First Academic Course /concept of democracy is developed by its definition and keep it away First lesson/roots of the concept and development of democracy	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
19	2	Second Academic Course/definition of de-mocracy	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
20	2	The third Academic Course/democracy between globalism and privacy	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
21	2	Second Academic Course /Forms of Democracy First lesson/direct democracy First Academic Course/content of direct democracy Second Academic Course/immediate applications of democracy Third Academic Course/assessment of the direct democracy system	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching method	Assessment method
22	2	Second lesson/semi-direct democracy First Academic Course/concept of semi-direct democracy Second Academic Course/semblance of semi-direct democracy	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
23	2	Third Lesson/recognition of the semi-direct democracy system. Third lesson/representative democracy	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
24	2	First lesson/concept and legal nature of representative system Second lesson/elements of the representative system	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
25	2	Third lesson/representative system forms	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
26	2	Fourth lesson /Parliamentary Council First Academic Course /Single Council and bicameral system Second Academic Course: Internal organization of Deputies Chamber	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
27	2	Third Academic Course /to which the representative system of the assembly: Election First Lesson/ election structure and its legal format First Academic Course/concept of election Second Academic Course /legal structure of the election Second lesson/Electoral Commission First Academic Course /concept of the electorate Second Academic Course / electorate structure	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
28	2	Third Lesson/candidates for election Third Academic Course/Organization of the election process First Academic Course /Establish the electoral districts. Second Academic Course /constituencies. Third Academic Course/ candidates	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching method	Assessment method
29	2	Fourth Academic Course/election campaign Fifth Academic Course/voting Fourth lesson/Organization of elections Second Lesson/individual election and election by list	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
30	2	Third lesson/majority system and proportional representation system Fourth Academic Course /interest representation system Fifth Academic Course/voting system selection and compulsory voting. Sixth Academic Course/system of secret voting and public voting	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
31	2	Islamic Governor structure	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
32	2	Water management	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
33	2	The addiction phenomenon and its effects in society	Human rights	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams

23. Infrastructure	
Required bibliography: • The basic texts are • The Academic Course books • Other	There are many documents on which the programme relies on, such as 1- H1- Human and Children's Rights and Democracy is a group of Publications of the Ministry of Education, High and Scientific Research for the year 2009 2- Dr. Riad Aziz Hadi/ Human Rights developed by its contents published in 2005 3 - Dr. Mohamed Abed Al Jabri: Democracy and Human Rights, 1994 4- Dr .Wahid Abdul Majid Al-Dem in the Arab World in general in 1980, there are many publications that cannot be mentioned.

Special requirements (including, for example, workshops, seminars, software and websites)	
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

. Educational Institution	Kut University College
University Department \ Centre	
The name/code of the Academic Programme	Medical Chemistry CHM106
Programme included	Medical Chemistry and Human Health

Approved Accreditation Programme	Lessons and laboratories
Academic Programme/year	Two semesters of the first stage
Number of hours (total)	60 theoretical hours and 60 practical hours
Preparation Date of this Description	2024-2023-.

Objectives of the Academic Course

Introduction into medical chemistry, general, organic and biochemistry

33. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1- Teaching students the relationship of general and non-organic chemistry to human beings
A.2- Understand the variables that occur when changes of concentration of materials to the body's health
A.3- The relationship of acid and base measures in blood and their effects on organ functions
A.4- Buffer solutions and their effects
A.5 - Pollution and its impact on human health and environment
A.6 - Radiation Chemistry and the effects of radiation on human health.

B. Programme Skill Objectives

B.1 - Depending on the teaching method used, e.g., lesson discussion and questioning.
B 2 - Use laboratories and practical experiments to increase student understanding and use them in practice
B 3 - Methods of exams and assessments.

Methods of Teaching and Learning

The teaching method changes depending on student understanding and interaction with the lesson. A discussion, investigation or inference methods are used. All methods may be used at the same time, as well as using laboratories and practical experiments to increase student understanding and awareness.

Assessment Methods

Monthly examinations, quizzes, student attendances, in addition to their interaction with the subject and their participation and discussion during lectures and lessons.

C-Thinking Skills

C.1- Investigation
C.2- Discussion
C.3- Laboratory experiments and reports
C.4- Induction

Methods of Teaching and Learning

All methods of education used such as PowerPoint, presentation, laboratory reports as well as experiments, and all the process mentioned above

Assessment Methods

Monthly assessment methods, oral and final examinations, short examinations and laboratory reports and through attendance and absence records

D. General and gained skills (Other skills related to employability and personal development).

D.1-Annual updating and development of lectures
D.2- Follow-up of published research on the subjects in relevance.
D.3- Conducting quarterly and annual researches through personal and collective efforts and publish them in Arab and global magazines.
D.4-Discussion of the curriculum with the relevant and competent persons in order to reach the best of them.

34. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	2	Acid, Base and Salt	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
2	2	salts, preparation of salts	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
3	2	Fluid and electrolyte	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
4	2	Buffer-pH and Acid- Base Balance	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
5	2	acid-base balance and blood pH	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
6	2	Colloids and colloidal dispersions	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
7	2	Molar concentration (Molarity)	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
8	2	Chirality in Biological Systems	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
9	2	Pollution	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
10	2	Radiochemistry	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
11	2	Alkanes and Cycloalkanes	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
12	2	Alkenes and Alkynes	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
13	2	Aromatic compounds	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
14	2	Aromatic compounds in Nature	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
15	2	Stereoisomers of Carbon	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
16	2	Diastereomers	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
17	2	Phenols (preparation, reactions)	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
18	2	Carboxylic Acids and Their Derivatives	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
19	2	Amides	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
20	2	Aldehydes and ketones	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
21	2	Carbohydrates	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
22	2	Monosaccharide's	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
23	2	Disaccharides	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
24	2	Lipids	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
25	2	Derived lipids	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
26	2	Proteins and Amino Acids	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
27	2	Amino acids	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
28	2	Nucleic Acids	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams
29	2	Acid, Base and Salt	Chemistry	A theoretical lecture using Power Point	Short, quarterly, half-year and final exams

35. Infrastructure	
Required bibliography: • The basic texts • Course book • Other	Chemical Bases of life, Textbooks of Biochemistry, General Chemistry principle and applications of Inorganic, Organic and Biochemistry
Special requirements (including, for example, workshops, seminars, software and websites)	Workshops and seminars (Seminars) to discuss various subjects in medical chemistry
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

Laboratory sessions

No.	Title of the sessions	Hours
1	Lab safety	2
2	Name of some important chemicals and equipment	2
3	Action of Strong Base and Acids	2
4	Solubility rules and Applications.	2
5	Test for negative ions (Anions). Part I	2
6	Test for negative ions (Anions). Part II	2
7	Test for positive ions (Cations). Part I	2
8	Test for positive ions (Cations). Part II	2
9	Test for positive ions (Cations) Unknown investigations	2
10	Hydrocarbons.	2
11	Alcohol	2
12	Aromatic hydrocarbons (Phenol)	2
13	Aromatic hydrocarbons (Aspirin)	2
14	Aldehyde and Ketone	2
15	Aldehyde and Ketone (Unknown investigations)	2
16	Carboxylic acid (Part I)	2
17	Carboxylic acid (Part II)	2
18	Carbohydrates. (Part I)	2
19	Carbohydrates. (Part II)	2
20	Carbohydrates. (Unknown investigations)	2
21	Lipids. (Part I)	2

No.	Title of the sessions	Hours
22	Lipids. (Part II)	2
23	Protein. (Part I)	2
24	Protein. (Part II)	2
25	Protein. (Unknown investigations)	2
26	Buffers.	2
27	Osmosis.	2
28	Acid-Base Titration.	2
29	Oxidation –Reduction.	2
30	pH-Meters.	2
Total		**60**

36. Educational Institution	Kut University College
37. University Department/Centre	Department of Dentistry
38. The name/code of the Academic Programme	Physics/PHY107
39. Programme included	
41. Academic Study System	Student attendance is 100% for all academic year
41. Academic Course/Year	Two semesters / first stage
42. Number of hours (total)	60 theoretical hours and 60 practical hours
43. Preparation Date of this Description	2024-2023

44. Objectives the Academic Course:

enabling students to learn about the physical ideas related to the human body in two ways:
Physical functions of organs of the human body and medical applications in diagnosis and treatment are described and applied.
Theoretical and practical mastery of the prescribed curriculum vocabulary

45. Programme outputs and teaching, learning and assessment

methods A. Cognitive Objectives (Knowledge and Understanding)

A. 1–Physics relationship to humans
A. 2– physical effects within the human body
A. 3– physical applications on the human body in diagnostic and therapeutic methods
A.4– improvement of the performance of the human body by physical means
A. 5– All this information relates to human health.
A.6–

B. Programme Skill Objectives

B.1- Lessons and discussion to consolidate ideas
B.2 - Experiments, laboratories and reports.
B.3-
B.4-

Methods of Teaching and Learning

Data Show

Assessment Methods

Quarterly exams, quizzes, and student attendance, student work in the classroom and interaction with the lessons

C. Thinking Skills

C.1- Oral questions as a basis for discussion
C.2- Practical experiments
C.3- Laboratory reports
C.4- Homework.

Methods of Teaching and Learning

All learning methods used such as lessons, assignments, reports and discussion panels.

Assessment Methods

Practical, theoretical, disciplined examinations within the lessons.

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

D.1- student preparation of theory and practice for doing tasks as required.

46. Academic course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	2	*Force on &in body:* Static forces :(type of levers with medical examples). Dynamic forces *(Centrifuge)	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	2	*Physics of the skeleton:* Bones:(Function of bones, composition of bone, bone remodelling, compact and trabecular bone) Stress-strain curve:(compressive and tensile stress, young modulus). Bone joints: (Synovial fluid, coefficient of a joint).	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	*Heat and cold in medicine:* .	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	2	*Energy, work and power of the body:* 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).	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	*Energy, work and power of the body:*	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
6	2	Pressure:	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	2	Pressure:	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	2	Electricity within the body:	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	2	Electricity within the body:	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	2	Sound in medicine: Ultrasound (A- scan, B-scan, M- scan and Doppler effect). Physiological effect of ultrasound in therapy.	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	2	Sound in medicine: Ultrasound (A- scan, B-scan)	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	2	Sound in medicine: Ultrasound (A- scan, B-scan)	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	2	*Physics of the ear and hearing:* Defective vision, audits correlation (short and long sight, Astigmatism, contact lenses, glasses prescription. Colour vision and chromatic aberration (colour blindness, purkinje effect, and ocular chromatic aberration). Ophthalmoscope.	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
14	2	Physics of the ear and hearing:	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	2	Light in medicine:	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	2	Light in medicine:	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	2	Laser in medicine What is laser?	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	2	Physics of diagnostic X- ray:	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	2	Physics of diagnostic X- ray:	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
20	2	Physics of diagnostic X- ray:	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	2	Physics of diagnostic X- ray:	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	2	Physics of nuclear medicine:	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
23	2	Brach therapy, quality factor (QF).	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	2	Principles of radiation therapy.	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	2	The dose units (Rad and Gary).	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	2	Physics of radiation therapy:	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	2	Radiation protection	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	2	Radiation effects of ionizing radiation	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	2	Radioactive materials (Radon gas).	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	2	Pollution: Natural occurrence of	Physics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

47. Infrastructure

Required bibliography:

- The basic texts
- Course books
- Other

Medical Physics John Cameron
Other non-systematic books of assistance

Special requirements (including, for example, workshops, seminars, software and websites)	**Workshops and seminars (Seminars) to discuss various subjects in medical chemistry**
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

Laboratory sessions

No.	Title of the sessions	Hours
1	Focal length of a concave mirror.	2
2	Laser application for measurements of single slit width	2
3	Laser application for measurements of laser wavelength	2
4	Divergence of laser beam	2
5	Intensity of laser beam	2
6	Widening the bundle of laser rays	2
7	Cathode ray oscilloscope to measure D.C voltage	2
8	Cathode ray oscilloscope to measure A.C voltage	2
9	Viscosity of a liquid using small sphere	2
10	Viscosity of a liquid using different small sphere weight	2
11	Viscosity of different kind of liquids using small sphere	2
12	Ohm's law to calculate unknown resistance	2
13	Ohm's law for metal wire with different length	2
14	Ohm's law for metal wire with different section area	2
15	The focal length of a convex lens	2
16	Pendulum Measuring the acceleration of free fall	2
17	Pendulum Measuring the acceleration of free fall of different spheres	2
18	Semiconductors (Junction diode).	2
19	Boyle's law	2
20	Hook's law to determine the force constant of the spring	2
21	Hook's law to determine the work done by the stretching the spring	2
22	Velocity of the sound using tube of water	2
23	Velocity of the sound using tube of different liquids	2

No.	Title of the sessions	Hours
24	The focal length of a converging lens.	2
25	Measuring the intensity of radiation	2
26	Specific heat capacity of water	2
27	Specific heat capacity of solid	2
28	Latent heat of vaporization	2
29	Archimedes principle	2
30	Thermal conductivity	2
Total		60

48. Educational Institution	Kut University College
49. University Department/Centre	Department of Dentistry
50. The name/code of the Academic Programme	Biology / BIO108
51. Programme included	Biology and its relationship to human health
52. Available Academic Courses	Student attendance is 100% for all academic year
53. Academic Study System/Year	Two semesters / first stage
54. Number of hours (total)	60 theoretical hours and 60 practical hours
55.Preparation Date of this Description	2024-2023.
56.Objectives of the Academic Programme	
Access to biology and understanding of its various branches such as parasites, cell science, tissues and genetics	

57. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1- Student learning the relationship of life sciences to human beings
A.2- Understand the impact of life science on body health
A.3- The relationship of parasitology and cell science to human diseases
A.4-The relationship of genetics to human health
A.5- The relationship of tissue science to human beings
A.6- Relationship of cell science to blood

B. Programme Skill Objectives

B.1 – Depending on the teaching method used, e.g., lecture discussion, questioning.
B.2 - Use laboratories and practical experiments to increase student understanding and learn this in practice
B.3 - Method of surprise exams and quizzes

Methods of Teaching and Learning

The teaching method changes depending on student understanding and interaction with the lesson. A discussion, investigation or inference methods are used. All methods may be used at the same time, as well as using laboratories and practical experiments to increase student understanding and awareness.

Assessment methods

Monthly examinations, short and surprise exams and student attendance. In addition to their interaction with the subjects and their activities during the lessons

C. Thinking Skills

C.1 - Investigation
C.2 -Discussion
C.3 - Laboratory experiments and reports
C-4 - Induction

Methods of Teaching and Learning

Monthly examinations, short, quarterly, half-year, final exams, laboratory reports and through attendance and absence records.

D. General and gained skills (Other skills related to employability and personal development.)

D.1 – Annual development of lectures

D.2 - Follow-up of published research on the subjects studied

D.3 - Undertake quarterly and annual research through personal and collective efforts and publish them in Arab and global magazines

D.4 -Discuss the curriculum with those people of knowledge and competence in order to reach the best results

58. Academic course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	2	Introduction to Biology	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	2	Bacteria and viruses	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	Bacteria and disease	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	2	Immune system	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	Parasitology, type of Parasites	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	2	Types of hosts	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	2	Entamoeba histolytica, and coli	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	2	Giardia lambelia, Leishmaniatropica	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	2	Plasmodium vivax, Toxoplasmagondii	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
10	2	Fasciola hepatica, Schistosomaspp	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	2	Taeniasaginata and solium, hinococcusgranulosus	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	2	Ascarislumbricoides, Ancylostoma, Enterobius	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	2	Cell biology	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	2	Structure of macromolecules	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	2	Structure of plasma membrane	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	2	Half-year Brea	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	2	Endoplasmic Reticulum	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	2	Mitochondria, Golgi Apparatus	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	2	Nuclear membrane and Chromatin	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
20	2	Spermatogenesis and Oogenesis	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	2	Histology, epithelial tissues	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	2	Connective tissues	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	2	Cartilage, bones	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	2	Blood	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	2	Muscular tissue	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	2	Nerve tissues	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	2	Genetic and inheritance	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	2	Hereditary and environment, DNA, RNA	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	2	Human karyotypes, chromosomes, mutation	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	2	Blood groups, genetic engineering, restrictions	Biology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Laboratory sessions

No.	Title of the sessions	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	*Entamoebahistolytica, Entamoeba coli*	2
19	*Giardia lamblia, Trichomonasvaginalis Trichomonantenax*	2
20	*Leishmaniatropica, Leshmaniadonovani*	2
21	*Trypanosomagambiense,T.rhodesiense*	2
22	*Plasmodium vivax, Toxoplasma gondii*	2
23	*Balantidium coli*	2
24	*Echinococcusgranulosus,Taeniasaginata Taeniasolium*	2
25	*Ancylostoma, Ascaris, Entrobius*	2
26	*Schistosomaspp, 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

59. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Chemical Bases of life, Textbooks of Biochemistry, General Chemistry principle and applications of Inorganic, Organic and Biochemistry
Special requirements (including, for example, workshops, seminars, software and websites)	Workshops and seminars (Seminars) to discuss various subjects in biology
Social services (for example, guest lesson and professional training and practical Academic Courses)	

1. Teaching Institution	Kut University College
2. University/Department/Centre	Department of Dentistry
3. Course Title/ Code	English language EL109
4. Modes of Attendance offered	E learning. Google classroom theoretical lectures
5. Semester/Year	Two semesters / the 1st stage
6. Number of hours tuition (total)	30 theoretical hours
7. Date of production/revision of this specification	2023-2024
8. Aims of the Program to increase the academic level of the undergraduate students concerning English language and to develop their skills of communications.	
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9. Learning Outcomes, Teaching ,Learning and Assessment Method
A. Cognitive goals A1. Let the students communicate by using English A2. Increase the academic status of the students
B. The skills goals special to the course. B1.Reading B2.writing B3. Listening
Teaching and Learning Methods
Lessons using power point (data show) through google classroom
Assessment methods
Short, quarterly, half-year and final exams

C. Affective and value goals C1. getting good accent C2. know how to write an academic paper
Teaching and Learning Methods
Theoretical lessons by using google classroom
Assessment methods
Short, quarterly, half-year and final exams

10. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	Tenses/ questions/ forms/ everyday English	English language	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
1	1	Have/have got, present simple/present continuous everyday English	English language	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
1	1	Past simple/ past continuous/ prepositions in time expressions/ vocabulary making negatives	English language	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
1	1	Expression of quantity / articles /vocabulary/ everyday English	English language	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
1	1	Verb pattern/ like doing/would like to do/will/going to/ vocabulary/ everyday English	English language	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
1	1	What, like/ comparatives and super relat/ives adjectives/synonyms/	English language	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

		antonyms			
1	1	Present perfect/ present perfect and past simple/	English language	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
1	1	Have to	English language	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
1	1	Introduction to modal auxiliary verbs/should/must	English language	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
1	1	Time clause/will/first conditional/ used to/used to and past simple/infinitives/vocabulary	English language	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
1	1	The passive/second conditional/might	English language	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
1	1	Present perfect continuous/past perfect/ reported statemets/appendix	English language	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

11. Infrastructure	
1.Books Required reading	Headway intermediate level
2. Main references (sources)	Headway intermediate level
A- Recommended books and references (scientific journals, reports)…..	
B-Electronic references, Internet sites…	

12. The development of the curriculum plan
- Development of academic content by deletion, addition and replacement. - Using modern methods of teaching appropriate to the level of learners from time to time. - Updating the assessment methods and measuring the level of students.

Promote e-learning.
Adding new level to the curriculum like academic writing.

1. Educational Institution	Kut University College
2. University Department/Centre	Department of Dentistry
3. The name/Code of the Academic Programme	DEM209
4. Programme included	Dental Material
5. Academic Study System	Student attendance at lectures and laboratories
6. Academic Course/Year	Two semesters/ second stage
7. Number of hours (total)	30 theoretical hours and 60 practical hours
8. Preparation Date of this Description	2024-2023.
9. Objectives of the Academic Programme	
Learn the physical, chemical and mechanical properties of materials in dentistry and learn the skills to handle and adapt these materials.	

10. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 - Student learning of various types of materials involved in dentistry
A.2 - Providing the necessary information to deal with these materials
A.3 - Providing guidance and following up on the process of using materials from mixing and following up the interactions of the material to reach the end of the interaction.

B. Programme Skill Objectives

B.1 - describing the tools used to prepare enough materials
B. 2– teaching the students how to use it and following it up while working

Methods of Teaching and Learning

LCD, lesson, show data, live explanation and handling all types of materials listed in the curriculum.
The Academic Course sets that the students are divided into groups on the number of days for week

Assessment methods

Weekly, monthly, half-year and annual examinations

C. Thinking Skills

C.1 - Ability to solve problems
C.2 – Ability to deal with dental materials in various conditions, such as changing temperature or changing the ratios for mixing these materials altogether to reach the best results of them.
C.3 -

Methods of Teaching and Learning

Theoretical and practical lessons (stimulus and response)
Observing student response in the halls of practical demonstration

Assessment methods

Theoretical examinations

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

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

Week	Theoretical Content	Hours	Teaching Method	Assessment Method
1	**Introduction to dental materials, physical, mechanical, chemical and biological properties of dental materials**	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials	Short, Quarterly, half-year and final exams. For the laboratory, practical exams
2	**Gypsum product** Definition, requirement, types: • gypsum bonded investment • phosphate bonded investment • ethyl silicate bonded (composition, properties and manipulation)	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials	Short, Quarterly, half-year and final exams. For the laboratory, practical exams

Week	Theoretical Content	Hours	Teaching Method	Assessment method
3	**Investment materials** factors affecting setting time, setting expansion, strength, storage and manipulation of gypsum products, hygroscopic expansion. table with properties	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials	Short, Quarterly, half-year and final exams. For the laboratory, practical exams
4	**Impression materials** Definition Ideal properties of impression materials. Classification of impression materials. Non elastic impression materials Impression plaster	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials	Short, Quarterly, half-year and final exams. For the laboratory, practical exams
5	- **Impression compound** - **Zinc oxide-eugenol**	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials	Short, Quarterly, half-year and final exams. For the laboratory, practical exams
6	**Elastic impression material**	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials	Short, Quarterly, half-year and final exams. For the laboratory, practical exams
7	**Elastomeric impression material**	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials	Short, Quarterly, half-year and final exams. For the laboratory, practical exams

Week	Theoretical Content	Hours	Teaching Method	Assessment Method
8	**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** 1. silicate cement. Disadvantages. 2. acrylic resin. Disadvantages.	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials	Short, Quarterly, half-year and final exams. For the laboratory, practical exams
9	**Composite filling materials.** Composition and structure. Types of composite 1. according to methods of curing 2. classification based on size of filler particles/ Filler content Properties	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials	Short, Quarterly, half-year and final exams. For the laboratory, practical exams

Week	Theoretical Content	Hours	Teaching Method	Assessment method
10	**Posterior filling materials** Dental amalgam Classification of amalgam alloys. Manufacture of alloy powder Aging Spherical powder Composition Low copper High copper 1. admix 2. Unicomposition Low copper alloy Available as Setting reaction High copper alloy	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials	Short, Quarterly, half-year and final exams. For the laboratory, practical exams
11	**Properties of set amalgam** 1. Dimensional changes. Factor favouring contraction. 2. Strength. Factors affecting strength. 1. effect of trituration 2. effect of Hg content. 3. Effect of condensation.	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials	Short, Quarterly, half-year and final exams. For the laboratory, practical exams
12	**Metallic denture base materials, Metal and metal alloy** Definition of alloy, requirement of casting alloy, application of dental alloy, classification of metal, classification of dental alloy, gold foil (advantage, disadvantages), gold alloys (composition and	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials	Short, Quarterly, half-year and final exams. For the laboratory, practical exams

13	**alternative of gold alloys**, metal ceramic alloys (requirement, types), removable denture base alloys (requirements, types), co/cr alloy (application, composition, properties, advantages, disadvantages)	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials	Short, quarterly and final theoretical exams. For the laboratory, practical exams
14	**Titanium and Titanium alloys:** Applications, properties, Ni/cr alloys, composition, indications, wrought stainless steel allo	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials	Short, quarterly and final theoretical exams. For the laboratory, practical exams
15	**Non-metallic denture base** Polymers and polymerization Definition of polymer, co-polymer, cross-link polymer, polymerization, degree of polymerization. Factors which control structure and properties of polymer	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials	Short, quarterly and final theoretical exams. For the laboratory, practical exams
16	**Denture base resin** Requirement for clinically acceptable denture base material Old materials used to constrict denture. The material of choice to use as denture base material	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials	Short, quarterly and final theoretical exams. For the laboratory, practical exams

Week	Theoretical Content	Hours	Teaching Method	Assessment method
17	**Properties of heat cure** Composition of chemically activated resin Compared to heat activated resins Light activated resin Composition Processing errors	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials	Short, quarterly and final theoretical exams. For the laboratory, practical exams
18	**Waxes Definition**, Requirements, classification of wax according to origin & melting point, classification of wax according to uses properties of dental waxes.	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials	Short, quarterly and final theoretical exams. For the laboratory, practical exams
19	**Temporary filling** Definition, indication, Requirements, Types	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials	Short, quarterly and final theoretical exams. For the laboratory, practical exams
20	**Cements** Classification of dental cements, Definition, Requirements	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials	Short, quarterly and final theoretical exams. For the laboratory, practical exams
21	**Tissue conditioner** Definition, Types, Requirements, indication. **Soft liners** **Types:** Requirements, indication, properties	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials	Short, quarterly and final theoretical exams. For the laboratory, practical exams
22	**Polishing and Abrasives** - Definition, factors affecting finishing and polishing, Types, and indication for each. - Denture cleaners: Types, Requirements	1	For the theoretical approach, the teaching method includes preparation of lessons by Power Point For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials	Short, quarterly and final theoretical exams. For the laboratory, practical exams

Laboratory sessions

No.	Title of the sessions	Hours
1	Introduction and physical properties of dental material	2
2	Mechanical properties (stress strain curve)	2
3	Showing different types of gypsum materials (plaster, stone)	2
4	Steps of mixing plaster and demonstrate the steps of setting.	2
5	Impression plaster, demonstrate the manipulation of impression compound	2
6	Zinc oxide impression material and agar impression \demonstrate the mixing of zinc oxide impression.	2
7	Alginate impression (elastic impression) showing the trays used and the mixing of alginate and water according to manufacturer instructions.	2
8	Poly sulphide, condensation and addition silicon\mixing of heavy body and light body.	2
9	Poly ether, hybrid impression, digital impression.	2
10	Showing different types of wax (denture base plate, denture casting wax and others)	2
11	Demonstrate how to use wax material and its manipulation.	2
12	Introduction to polymers.	2
13	Different types of denture base materials (heat, cold and light activated polymers) demonstrate the mixing of polymer and monomer.	2
14	Thermoplastic polymers (flexible denture base material).	2
15	Investment materials (showing the method of the investment).	2
16	Introduction to cement materials.	2
17	Showing different types of cement materials and the method of mixing of cement.	2
18	Temporary filling (use and manipulation).	2
19	Introduction to metal and metal alloy.	2
20	Showing the different types of metal and metal alloy.	2
21	Introduction to crown and bridge material.	2
22	Introduction to filling material.	2
23	Amalgam filling\showing the amalgam capsules and mixing of amalgam.	2
24	Composite filing (chemical and light activated).	2
25	Micro filled, hybrid, and nano composite.	2
26	Demonstrate the setting of chemical and light activated composite filling material	2
27	Showing different types of preventive materials (toothpastes, gargles. Mouth wash fluoride varnishes and resin sealers).	2
28	Demonstrate the obstructing materials (gutta percha, sealers) and endodontic instruments.	2
29	Finishing and polishing materials.	2
30	Relining materials.	2
Total		60

60. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Phillips applied dental material Restorative dental material Dental material their selection and use
Special requirements (including, for example, workshops, seminars, software and websites)	
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

61. Educational Institution	Kut University College
62. University Department/Centre	Department of Dentistry
63. The name/code of the Academic Programme	PRS210
64. Programme included	Prosthodontics
65. Available attendance formats	Student attendance at lectures and labs
66. Semester /Year	Two semesters/ Second Stage
67. Number of hours (total)	30 theoretical hours and 120 practical hours
68. Preparation Date of this Description	2024-2023-.
69. Objectives of the Academic Programme	
• Generally, the introduction of dental material, is one of the most important materials that students will continue to study for the next four years • The definition of terms that will be used to explain the Academic Course so that students can understand them correctly • The practical laboratory steps for making dentures and practical laboratory trainings are used and to adapt the materials used in making dentures.	

70. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

- giving the necessary information to deal with materials involved in manufacturing prosthodontics and making complete dentures.
- Providing students with full knowledge, which enable them to master all laboratory steps to for making complete dentures.

B. Programme Skill Objectives

B.1- Describing the Academic Courses, equipment and materials for making denture
B.2-. Teaching students how to use them and following them up step by step while working.

Methods of Teaching and Learning

LCD, lesson, show, data digital cameras, live explanation and handling all the types of materials listed in the curriculum in front of the students after they are divided into groups on the number of days of the week, and all the steps explained in details.

Assessment methods

Practical assessment of each step of the denture making process
Weekly, monthly, half-year and annual examinations.

C. Thinking Skills

C.1 - solve problems
C.2 - able to handle and adapt dental materials with the complete skill to facilitate and master the laboratory of making denture and to respond to student questions and inquiries
C.3 – Live explanation, detailed sacrifice and direct interaction
C.4 - in the making of the denture, students will face difficulties due to their interaction with each other. Firstly, with the dentistry materials, which stimulates student creativity in making dentures.
C.5 - providing work atmosphere and group instructions, which gives students a good environment, that help and alert them to the gaps and errors that they may have made.

Methods of Teaching and Learning

Theoretical lectures, training and practical explanation. Observing student response within the demonstration rooms

Assessment methods

Theoretical examinations
Evaluate each steps of their dentures- making

71. Academic Course structure

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
1	1	**Introduction**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
2	1	**Anatomical landmarks**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
3	1	**Anatomical landmarks**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
4	1	**Complete Denture Impression**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
5	1	**Complete Denture Impression**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
6	1	**Complete Denture Impression**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
7	1	**Record Base**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
8	1	**Occlusion Rims**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
9	1	**Anatomy and Physiology of Temporo-mandibular Joint**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
10	1	**Anatomy and Physiology of Temporo-mandibular Joint**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
11	1	**Maxillomandibular relation**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
12	1	**Methods of Recording Vertical Relation**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
13	1	**Horizontal Jaw Relation**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
14	1	**Dental Articulators**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
15	1	**Face – Bow**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
16	1	**Mounting**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
17	1	**Selection of Artificial Teeth**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
18	1	**Selection of Posterior Teeth**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
19	1	**Arrangement of Artificial Teeth**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
20	1	**Arrangement of Posterior Teeth**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
21	1	**Waxing and Carving**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
22	1	**Complete Denture Occlusion**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
23	1	**Complete Denture Occlusion**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
24	1	**Processing of The Denture (Flasking)**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
25	1	**Occlusal Correction**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
26	1	**Finishing and Polishing of Complete Denture**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
27	1	**Repair of Complete Denture**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
28	1	**Repair of Complete Denture**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
29	1	**Relining and Rebasing**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
30	1	**Relining and Rebasing**	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

11. Academic Course structure (practical side)					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	4	Clinical and laboratory steps of complete denture construction	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
2	4	Taking primary impression on metal mould by impression compound and beading and boxing and pouring by dental plaster.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
3	4	Pouring on rubber mould (upper and lower primary cast).	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
4	4	Description of anatomical landmarks (maxillary and mandibular).	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
5	4	Demonstration of making upper and lower special tray by cold cure acrylic.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
6	4	Finishing and polishing of special tray and evaluation	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
7	4	Demonstration of taking final impression and construction of master cast.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
8	4	Evaluation of record base construction +finishing and polishing.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
9	4	Bite rims construction (upper and lower).	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
10	4	Demonstration of facebow and fox bite description of types of jaw relation.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
11	4	Description about the methods of recording vertical jaw relation	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
12	4	Description about the methods of recording horizontal jaw relation.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
13	4	Demonstration about The types of articulator's parts, its uses and action.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
14	4	Mounting of upper and Lower casts on articulators.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
15	4	Evaluation, mounting of upper and lower casts on articulators (continue).	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
16	4	Description the methods of selection of anterior and posterior teeth for complete denture.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
17	4	Demonstration about arrangement of upper and lower anterior teeth.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
18	4	Evaluation, arrangement of upper and lower anterior teeth (continue).	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
19	4	Demonstration about arrangement of upper and lower posterior teeth	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
20	4	Arrangement of upper and lower posterior teeth (continue).	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
21	4	Evaluation, arrangement of posterior teeth and carving of posterior palatal seal.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
22	4	Demonstration about carving and waxing of upper complete denture.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
23	4	Evaluation, carving and waxing of lower complete denture.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
24	4	Flasking and investment of the denture.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
25	4	Wax elimination, packing and curing of heat cure acrylic.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
26	4	Deflasking, finishing and polishing of upper complete denture.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
27	4	Deflasking, finishing and polishing of lower complete denture.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
28	4	Demonstration of selective grinding.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
29	4	Repair of fracture denture.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
30	4	Repair of missing tooth.	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams

72. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	1. Syllabus of complete denture (textbook of complete denture) 2. Dental laboratory technology for removable prosthodontics 3. Iraqi virtual library 4.
Special requirements (include, for example, workshops, seminars, software and websites) Educational laboratories are also for students in the second stage, with all the basics and principles of making complete denture.	
Social services (for example, guest lesson and professional training, and practical Academic Courses)	Student participation at the annual faculty conference

73. Educational Institution	Kut University College
74. University Department/Centre	Department of Dentistry
75. The name/Code of the Academic Programme	Embryology EL211
76. Programme included	Dentistry
77. Academic Study System	Theoretical lectures and practical labs
78. Academic Programme/Year	Two semesters /second stage
79. Number of hours (total)	30 theoretical hours and 60 practical hours
80. Preparation Date of this Description	2024-2023-.

Objectives of the Academic Programme

Introducing the students to the stages of formation and development of the fetus and understanding the congenital anomalies associated with this development.

81. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1- Stages of development of the embryo
A.2 - Distortions that occur during the development of the embryo A.3 - Modern methods for diagnosing distortions
A.4 -
A.5 -
A.6 -

B. Programme Skill Objectives

B.1- Ability to dissection of laboratory animals (and extract embryos from them)
B.2 - Making slides with fetal slips
B.3 -
B.4 -

Methods of Teaching and Learning

Data show
Seminar
Anatomy by lecturers and students
Engaging students in seminar discussions

Assessment Method

Daily and quarterly examinations
Half-year and end-of-year exams
Assessment of seminars

C. Thinking Skills

C.1 – Ability to extract embryos from laboratory animals

C.2 - Participation in the evaluation of other student seminars

C.3- Engagement of students in the development of a question for other groups

C.4 -

Methods of Teaching and Learning

Data show
Seminar
Anatomy by teaching and
Engaging students in seminar discussions

Assessment Methods

Daily and quarterly examinations

Half-year and end-of-year exams

Assessment of seminars

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

D.1 - Subject-specific videos
Photos
Samples were brought by the students

D.2 -

D.3 -

D.4 -

82. Academic Course Structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	First week of development and ovulation	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
2	1	Infertility and implantation	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
3	1	Second week of development, Bilaminar germ layers	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
4	1	Third weeks 0f embryo development	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
5	1	Development of fetus and placenta	Embryology	Data show slides/ Experimental work	Experimental work on pregnant animal
6	1	Twin fetus	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
7	1	Third to eight weeks: embryonic period	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
8	1	Development of the head and neck	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
9	1	Pharyngeal arch	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
10	1	Congenital anomalies	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
11	1	Pharyngeal pouch	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
12	1	Pharyngeal cleft	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
13	1	Development of the tongue	Embryology	Data show slides and microscopic slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
14	1	Development of the palate	Embryology	Data show slides and microscopic slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
15	1	Nasal chamber	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
16	1	Congenital malformation	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
17	1	Pharyngeal arch	Embryology	Seminar discussion	Daily, quarterly, half-year and end-of-year exams and seminars assessments
18	1	Congenital anomalies	Embryology	Seminar discussion	Daily, quarterly, half-year and end-of-year exams and seminars assessments
19	1	Pharyngeal pouch	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
20	1	Pharyngeal cleft	Embryology	Seminar discussion	Daily, quarterly, half-year and end-of-year exams and seminars assessments
21	1	Development of the tongue	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
22	1	Development of the palate	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
23	1	Nasal chamber	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
24	1	Congenital malformation	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
25	1	Digestive system: Pharyngeal Gut	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments

26	1	Foregut	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
27	1	Caulomic cavity and Mesenteries	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
28	1	Nervous system: Development	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
29	1	Spinal cord	Embryology	Data show slides	Daily, quarterly, half-year and end-of-year exams and seminars assessments
30	1	Congenital malformation	Embryology	Seminar discussion	Daily, quarterly, half-year and end-of-year exams and seminars assessments

83. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	TEXTBOOKS OF MEDICAL EMBRYOLOGY
Special requirements (including, for example, workshops, seminars, software and websites)	
Social services (for example, guest lesson and professional training, and practical academic Courses)	

Laboratory sessions

No.	Title of the sessions		Hours
1	First week of development ovulation and implantation	data show projector	2
2	Fusion of Oocyte and sperm cell membranes	data show projector	2
3	Second week of development: bilaminar germ layer	Video presentation	2
4	Development of the fetus	data show projector	2
5	Third to eight weeks: embryonic period	data show projector	2
6	Third week of development trilaminar germ layer	Video presentation	2
7	Development of precordial plate and primitive streak	Video presentation	2
8	Development of placenta and its functions	Video presentation	2
9	Types of Twins	Video presentation	2
10	Pharyngeal arch	data show projector	2
11	Pharyngeal pouch and cleft	data show projector	2
12	Development of the face	data show projector	2
13	Development of the Tongue	Microscopic slides and data show	2
14	Development of the Palate	Microscopic slides and data show	2
15	Facial anomalies	Video and Data show figures	2
16	Development of Respiratory system	Microscopic slides and data show	2
17	Congenital anomalies of Respiratory System	Data show figures	2
18	Development of Digestive system	Data show figures	2
19	Congenital anomalies of Digestive system	Video and Data show figures	2
20	Development of nervous system	Data show figures	2
21	Congenital anomalies of nervous system	Data show figures	2
22	Development of muscular system	Data show figures	2
23	Congenital anomalies of muscular system	Data show figures	2
24	Development of skeletal system	Data show figures	2
25	Congenital anomalies of skeletal system	Data show figures	2
26	Development of cardiovascular system	Data show figures	2
27	Congenital anomalies of cardiovascular	Video	2
28	Development of endocrine	Video	2
29	Congenital anomalies of endocrine	Data show figures	2
30	Molecules related to developmental	Video and Data show Figures	2
Total			**60**

84. Institution	Kut University College
85. University Department/Centre	Department of Dentistry
86. The name/Code of the Academic Programme	Biochemistry / CHB212
87. Programme included	Biochemistry and Human Health
88. Academic Study System	Lectures and labs
89. Academic Programme/Year	Two semesters/second stage
90. Number of hours (total)	60 theoretical hours and 60 practical hours
91. Preparation Date of this Description	2024-2023-.

92.Objectives of the Academic Programme

Introduction to Biochemistry, understanding its functions, variables, irregular levels and input life, pathological, and methods for measuring their levels.

93. Programme outputs and teaching, learning and assessment methods

A. <u>Cognitive Objectives (Knowledge and Understanding)</u>

A.1 - teach students the relationship of general and non-organic chemistry to humans
A.2 - understand the variables that occur when the material is changed to the body's health
A.3 - the relationship of acid and base to blood and its effects on organ functions
A.4 - solution and system for blading
A.5 - pollution and its impact on human health and the environment
A.6 -radiation chemistry and radiological effects on human health

B. Programme Skill Objectives

B.1 -Depending on the teaching method used, e.g., lecture discussion and making questions.
B.2 - Use laboratories and practical experiments to increase student understanding and see this in practice
B.3 - Method of surprise exams and quizzes.

Methods of Teaching and Learning

The teaching method changes depending on student understanding and interaction with the lesson. A discussion, investigation or inference methods are used. All methods may be used at the same time, as well as using laboratories and practical experiments to increase student understanding and awareness.

Assessment Methods

Monthly examinations, quizzes and student attendance, in addition to its interaction with the material and its activity during lessons.

C. Thinking Skills

C.1 – Investigation
C.2 - Discussion
C.3 - Laboratory experiments and reports
C.4 - Induction

Methods of Teaching and Learning

All education methods used such as Pure Point, presentation, laboratory reports as well as experiments, the process and above

Assessment Methods

Methods of monthly exams, oral and final examinations, short examinations and laboratory reports, attendance and absence records of class.

D. General and gained skills (Other skills related to employability and personal development).

D.1 – Updating and developing lectures annually
D.2 - Following-up of published research on the subjects
D.3 - undertaking quarterly and annual research through personal and collective efforts and publish them in Arab and global magazines
D.4 - Discussing the curriculum with relevant and competent persons in order to reach the best of them.

94. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	2	Enzymes: Definition Terminology: substrate and cofactor; coenzyme…. etc Classification Kinetic properties of enzyme Enzyme inhibition Model of enzyme – substrate binding Enzyme regulation Effect of pH and Temp. on enzyme activity Plasma enzymes in diagnosis GPT and GOT LDH Isoenzymes	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	2	Classification	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	Kinetic properties of enzyme	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	2	Enzyme inhibition	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	Model of enzyme – substrate binding	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	2	Plasma enzymes in diagnosis	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	2	Lipid: Lipid classes Lipid metabolism: Triacylglycerol synthesis F.A. degradation F.A. biosynthesis Regulation of F.A. metabolism in mammals cholesterol metabolism	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
8	2	Lipid metabolism:	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	2	Triacylglycerol synthesis	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	2	F.A. degradation	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	2	Carbohydrate metabolism: Glycogen metabolism (synthesis & degradation) Glycolysis and its regulation Gluconeogenesis Metabolism of other important sugars Citric acid cycle and regulation Electron transport system Oxidative phosphorylation Oxidative stress Glucose - 6 -phosphate dehydrogenase efficiency	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	2	Glycogen metabolism (synthesis & degradation)	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
13	2	Glycolysis and its Regulation	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	2	Gluconeogenesis	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	2	Metabolism of other important sugars	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	2	Citric acid cycle and Regulation	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	2	Citric acid cycle and Regulation	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	2	Electron transport system	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	2	Vitamins: Definition The major groups(fat& water - soluble vitamins) Study the individual vitamins under certain general heading: sources, chemistry, metabolism, physiological functions, deficiency diseases, daily requirements, hypervitaminosis, vitamin antagonists, vitamin A,D,E,K,C &B, niacin, pyridoxine, pantothenic acid ,biotin, folic acid	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
20	2	The major groups (fat& water- soluble vitamins)	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
21	2	Sources, chemistry, metabolism	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	2	Daily requirements, hypervitaminosis	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	2	Vitamin A,D,E,K,C &B, niacin	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	2	Protein and amino acids metabolism Dynamic equilibrium and nitrogen balance Essential and non - essential A. As Nitrogen catabolism of A. As Formation of NH3 and urea Metabolism and fate ofNH3 in the body 1. Formation of urea (urea cycle) inherited disorder associated with urea cycle 2. . Glutamine formation 3. Amination of alpha - ketoacids Fate of carbon skeletons break down of C, H, O. These pathways converge to form seven intermediate products a. . Glycogenic amino acids b. Ketogenic amino acids Amino acids degradation and synthesis c. A. As forming pyruvate d. A. As forming fumarate e. A. As forming actyl -coA or acetoacyl -coA f. A.As forming succinyl – coA 9. Decarboxylation reaction of amino acids and biogenic amines 10. Other nitrogen containing compounds which produced from A.As 11. Metabolic defects in A.As metabolism	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
25	2	Dynamic equilibrium and nitrogen balance	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	2	Essential and non- essential A.As	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	2	Nitrogen catabolism of A.As	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	2	Formation of NH3 and urea	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	2	Metabolism and fate ofNH3 in the body	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	2	a. Formation of urea (urea cycle)	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
31	2	b. Glutamine formation	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
32	2	c. Amination of alpha- ketoacids	Biochemistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

95. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Chemical Bases of life, Textbooks of Biochemistry, General Chemistry principle and applications of Inorganic, Organic and Biochemistry
Special requirements (including, for example, workshops, seminars, software and websites)	Workshops and seminars (Seminars) to discuss various subjects in medical chemistry
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

Laboratory sessions

No.	Title of the sessions	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 (GPT&GOT)	2
13	Lipid in blood (cholesterol & lipoprotein)	2
14	Triglyceride	2
15	Kidney function Test (urea)	2

No.	Title of the sessions	Hours
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

96. Educational Institution	Ministry of higher Education and Scientific Research
97. University Department/Centre	Basic Science
98. The name/code of the Academic Programme	General Histology / GH 213
99. Programme included	General Histology – Dentistry
100.Available Academic Courses	Student attendance is 100% for all academic year
101.Academic Study System/Year	Two semesters/ second stage
102.Number of hours (total)	60 theoretical hours and 60 practical hours
103.Preparation Date of this Description	2022-2021-.
104.Objectives of the Academic Programme	
Students learn practical and theoretical applications of different body tissues and all body parts	

105. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 -Explain the structures of different tissues and organs of the body
A.2 -Use and draw simple diagrams on the board
A.3 -Use show data to view different segments of body organ tissues in several segments and directions.
A.4 -
A.5 -
A.6 -

B. Programme Skill Objectives

B.1 – Preparing tissue slice for different body segments
B.2 - Using optical microscopes to examine and distinguish different tissues and organs of the body
B.3 -
B.4 -

Methods of Teaching and Learning

Interactive method

Assessment Methods

1. Short daily exams - practical and theoretical exams
2. Quarterly, half-year and final examinations
3. Seminars and discussions in practical lessons

C. Thinking Skills

C.1 - View different parts of body organs and tissues and consider how to differentiate between them and their types.
C.2 -
C.3 -
C.4 -

Methods of Teaching and Learning

Assessment Methods

1. short daily exams - practical and theoretical exams
2. Quarterly, half-year and final examinations
3. Seminars and discussions in practical lessons

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

D.1 - Periodic discussions in various tissue applications
D.2 - Using optical microscopes to examine and distinguish tissue from the body's organs
D.3 - Preparing microscopic clips for different parts of the body
D.4 -

106. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	2	Introduction to general histology	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	2	Resp. system: respiratory portion	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	Resp. system: respiratory portion	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	2	Urinary system: Nephrons	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	Urinary system: Ureter &Bladder	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	2	Skin: Epidermis	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	2	Skin: Dermis	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	2	Skin glands, hair, nail	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	2	Hemopoeisis, Bone marrow	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
10	2	Hemopoeisis: Blood cells	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	2	Circulatory System	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	2	Circulatory System	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	2	Lymphoid System	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	2	Lymphoid system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	2	Nervous System	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	2	Nervous System	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	2	Nervous system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	2	Endocrine system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	2	Endocrine system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
20	2	Endocrine system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	2	Digestive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	2	Digestive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	2	Digestive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	2	Digestive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	2	Male Reproductive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	2	Male Reproductive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	2	Female reproductive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	2	Female reproductive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	2	Sense Organ (Eye)	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	2	Sense Organ (Ear)	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Laboratory sessions

No.	Title of the sessions	Hours
1	Slides of types of epith. Tissue	2
2	Slides of types of blood cells	2
3	Slides of larynx & trachea	2
4	Slides of lungs, bronchioles	2
5	Slides of kidney	2
6	Slides of ureter & urinary bladder	2
7	Slides of layers of epidermis	2
8	Slides of layers of dermis	2
9	Slides of hair, skin glands	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 tongue, 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

107. Kut University College	Kut University College
108. University Department/Centre	Department of Dentistry
109. The name/Code of the Academic Programme	Human Anatomy /ANT201
110. Programme included	Anatomy of a human body
111. Available Academic Courses	Lectures and labs
112.Academic Study System /Year	The first and second semesters of the first stage
113. Number of hours (total)	30 theoretical hours and 60 practical hours
114 Preparation Date of this Description	2024-2023-.

115. Objectives of the Academic Programme

The scientific preparation of the students in relation to the human anatomy, especially in relation to the subject of study. The head and neck anatomy and its relationship to their speciality as a dentist

116. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 - Acquiring knowledge about human anatomy
A.2 - Focusing on the anatomy of the head and neck
A.3 - Relationship to their competence as a dentist.

B. Programme Skill Objectives

B.1 - Relationship of human anatomy to student work as a dentist.
B.2 - Gaining full knowledge of the organs of the human body.
B.3 -

Methods of Teaching and Learning

- Lectures using (Data show, power point)
- Instructional films.
- Student guidance on some websites to use them.
- Practical laboratory on anatomical models

Assessment Methods

- Theoretical exams.
- Practical examinations.
- Oral examinations.
- Quiz examinations

C. Thinking Skills

C.1 - Enhance thinking skills through problem-solving learning.
C.2 - Gaining the basic principles of the learning curriculum.
C.3 - Developing student capacity for discussion and dialog.
C.4 – Encouraging students to connect knowledge of human anatomy to their work as a dentist

Methods of Teaching and Learning

- Lessons that research and teach students about ways to confront and solve problems.
- Keep track of how students think, how they make expression, and how quickly they respond.
- Practical lessons on anatomical models.

Assessment Methods

- Theoretical exams.
- Practical examinations.

D. General and gained skills (Other skills related to employability and personal development).

D.1 - Student preparation in practice in terms of applying knowledge gained in human anatomy to their work.
D.2 - Considering problem solving.
D.3 – Learning of professional ethics.
D.4 – Student gain skills to become a dentist capable of treating patients.
D.5 - Developing student capacity to deal with multiple learning means.

117. Academic Course structure

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
1	1	• Introduction to Human Anatomy • Descriptive Anatomic Terms	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
2	1	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
3	1	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
4	1	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
5	1	Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
6	1	Skeletal system of the body: Skull: Cranial Bones	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
7	1	Skeletal system of the body: Skull: Cranial Bones	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
8	1	Skeletal system of the body: Skull: Facial Bones	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
9	1	Skeletal system of the body: Skull: Facial Bones	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
10	1	External Views of the Skull	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
11	1	External Views of the Skull	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
12	1	The Cranial Cavity • Major Foramina and Fissures locations and structures passthrough • Neonatal Skull	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
13	1	The Cranial Cavity • Major Foramina and Fissures locations and structures passthrough • Neonatal Skull	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
14	1	• Skeleton of the Orbital Region, Openings into the Orbital Cavity • Skeleton of the External Nose, nasal cavity, • Paranasal Sinuses Auditory ossicles • Hyoid bone	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
15	1	• Skeleton of the Orbital Region, Openings into the Orbital Cavity • Skeleton of the External Nose, nasal cavity, Paranasal Sinuses • Auditory ossicles • Hyoid bone	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
16	1	The Vertebral Column	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
17	1	The Vertebral Column	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
18	1	• Structure of the Thoracic Wall • Joints of the Chest Wall • Suprapleural Membrane • Diaphragm Surface Anatomy	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
19	1	• Structure of the Thoracic Wall • Joints of the Chest Wall • Suprapleural Membrane • Diaphragm Surface Anatomy	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
20	1	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
21	1	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
22	1	Pericardium, Heart, Large arteries, veins and nerves of thorax	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
23	1	Pericardium, Heart, large arteries, veins and nerves of thorax	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
24	1	Pericardium, Heart, large arteries, veins and nerves of thorax	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
25	1	• Bones of the shoulder (Pectoral girdle) girdles • Bones of the upper extremities	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
26	1	• Bones of the shoulder (Pectoral girdle) girdles • Bones of the upper extremities	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
27	1	• Bones of the pelvic girdle • Bones of the lower extremities	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
28	1	• Bones of the pelvic girdle • Bones of the lower extremities	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
29	1	Abdominal cavity and organs	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
30	1	Abdominal cavity and organs	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

11. Academic Course structure. (Practical side)

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
1	2	• Introduction to Human Anatomy • Descriptive Anatomic Terms	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
2	2	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
3	2	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
4	2	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
5	2	Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
6	2	Skeletal system of the body: Skull: Cranial Bones	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
7	2	Skeletal system of the body: Skull: Cranial Bones	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
8	2	Skeletal system of the body: Skull: Facial Bones	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
9	2	Skeletal system of the body: Skull: Facial Bones	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
10	2	External Views of the Skull	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
11	2	External Views of the Skull	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
12	2	The Cranial Cavity • Major Foramina and Fissures locations and structures passthrough • Neonatal Skull	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
13	2	The Cranial • Cavity Major Foramina and Fissures locations and structures passthrough • Neonatal Skull	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
14	2	• Skeleton of the Orbital Region, Openings into the Orbital Cavity • Skeleton of the External Nose, nasal cavity, Paranasal Sinuses • Auditory ossicles • Hyoid bone	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
15	2	• Skeleton of the Orbital Region, Openings into the Orbital Cavity • Skeleton of the External Nose, nasal cavity, Paranasal Sinuses • Auditory ossicles • Hyoid bone	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
16	2	The Vertebral Column	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
17	2	The Vertebral Column	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
18	2	• Structure of the Thoracic Wall • Joints of the Chest Wall • Suprapleural Membrane • Diaphragm • Surface Anatomy	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
19	2	• Structure of the Thoracic Wall • Joints of the Chest Wall • Suprapleural Membrane • Diaphragm • Surface Anatomy	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
20	2	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
21	2	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
22	2	Pericardium, Heart, Large arteries, veins and nerves of thorax	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
23	2	Pericardium, Heart, Large arteries, veins and nerves of thorax	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
24	2	Pericardium, Heart, Large arteries, veins and nerves of thorax	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
25	2	• Bones of the shoulder (Pectoral girdle) girdles • Bones of the upper extremities	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
26	2	• Bones of the shoulder (Pectoral girdle) girdles • Bones of the upper extremities	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
27	2	• Bones of the pelvic girdle • Bones of the lower extremities	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
28	2	• Bones of the pelvic girdle • Bones of the lower extremities	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
29	2	Abdominal cavity and organ	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams
30	2	Abdominal cavity and organs	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral exams

118. Infrastructure	
Required bibliography: • The basic texts are • Books the academic course • Other	1. Snell's Clinical anatomy 7th edition. 2. Netter's head and neck anatomy for dentistry2nd edition 2012.
Special requirements (including, for example, workshops, seminars, software and websites)	Laboratories and workshops in addition to taking advantage of the lectures published on the faculty site
Social services (for example, guest lesson and professional training, and practical Academic Courses)	The study includes practical trainings on anatomical samples.

Laboratory sessions

No.	Title of the sessions	Hours
1	Scalp	2
2	Face	2
3	Parotid gland	2
4	Facial artery	2
5	Temporal fossa and infra temporal fossa	2
6	Temporal fossa and infra temporal fossa	2
7	Temporal fossa and infra temporal fossa	2
8	Temporal fossa and infra temporal fossa	2
9	Orbit	2
10	Orbit	2
11	Nasal cavity	2
12	Nasal cavity	2
13	Cranial nerves	2
14	Cranial nerves	2
15	Central nervous system	2
16	Neck	2
17	Neck	2
18	Neck	2
19	Pharynx	2
20	Alimentary tract & associated glands	2
21	Alimentary tract & associated glands	2
22	Alimentary tract & associated glands	2
23	Alimentary tract & associated glands	2
24	Alimentary tract & associated glands	2
25	Main body vessels	2
26	Main body vessels	2
27	Anatomy of nerve block	2
28	Anatomy of nerve block	2
29	Lymph drainage of head and neck	2
30	Spaces of head and neck	2
Total		60

119. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	2	Introduction to general histology	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	2	Resp. system: Conduction portion	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	Resp. system: respiratory portion	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	2	Urinary system: Nephrons	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	Urinary system: Ureter &Bladder	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	2	Skin: Epidermis	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	2	Skin: Dermis	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	2	Skin glands, hair, nail	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	2	Hemopoeisis, Bone marrow	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
10	2	Hemopoeisis: Blood cells	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	2	Circulatory System	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	2	Circulatory System	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	2	Lymphoid System	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	2	Lymphoid system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	2	Nervous System	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	2	Nervous System	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	2	Nervous system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	2	Endocrine system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	2	Endocrine system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
20	2	Endocrine system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	2	Digestive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	2	Digestive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	2	Digestive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	2	Digestive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	2	Male Reproductive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	2	Male Reproductive system	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	2	Female Reproductive System	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	2	Female Reproductive System	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	2	Sense Organ (Eye)	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	2	Sense Organ (Ear)	General histology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

120. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	1. Jonquiere's Basic histology text Atlas 2. Difiore's Atlar of Histology 3. Histology A text and Atlas. Micheal H. Ross 4. Textbooks of human Histology 5th . Ed 2012 by Inderbir Singh
Special requirements (including, for example, workshops, seminars, software and websites)	Holding workshops and seminars (Conferences) to discuss various subjects in tissue science
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

Laboratory sessions

No.	Title of the sessions	Hours
1	Slides of types of epith. Tissue	2
2	Slides of types of blood cells	2
3	Slides of larynx & trachea	2
4	Slides of lungs, bronchioles	2
5	Slides of kidney	2
6	Slides of ureter & urinary bladder	2
7	Slides of layers of epidermis	2
8	Slides of layers of dermis	2
9	Slides of hair, skin glands	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

No.	Title of the sessions	Hours
21	Slides of tongue, 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

121. Educational Institution	Kut University College
122. Department of Dentistry	Department of Dentistry
123. The name/Code of the Academic Programme	Physiology / PH 213
124. Programme included	Theoretical and practical
125. Available Academic Courses	Student attendance is 100% for all academic year
126. Academic Study System/year	Two semesters/ second stage
127. Number of hours (total)	60 theoretical hours and 60 practical hours
128. Preparation Date of this Description	2024-2023-.
129. Objectives of the Academic Programme	
Introduction to the physiology and students learn how it performs functions for different body parts.	

130. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 - teaching students the functions of body parts
A.2 - Study of diseases affecting different organs of the body
A.3–
A. 4–

B. Programme Skill Objectives

B. 1—Student knowledge of body part functions
B.2–
B. 3–
B.4 -

Methods of Teaching and Learning

Teaching and learning means and tools

Assessment Methods

Examinations

C. Thinking skills

C.1 - solving problems
C.2 – ability to leadership
C.3 -
C.4 -

Methods of Teaching and Learning

Teaching and learning means and tools

Assessment Methods

Practical and theoretical exams

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

D.1 - teaching students academic methods for discussion and talks
D.2 -
D.3 -
D.4 -

131. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	2	Cell physiology	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	2	Nerve and muscle Microanatomy of nerves	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	Nerves (types of nerves)	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	2	Nerve (Types of muscles)	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	Nervous System	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	2	Nervous System	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	2	Nervous System	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	2	Red blood cells	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	2	Blood groups	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
10	2	Blood coagulation	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	2	Cardiovascular system	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	2	Cardiovascular system	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	2	Cardiovascular system	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	2	Cardiovascular system	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	2	RESPIRATIORY SYSTEM	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	2		Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	2	Half-year Break	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	2	RESPIRATIORY SYSTEM	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	2	RESPIRATIORY SYSTEM	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
20	2	RENAL SYSTEM AND BODY FLUIDS	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	2	RENAL SYSTEM AND BODY FLUIDS	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	2	RENAL SYSTEM AND BODY FLUIDS	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	2	ENDOCRINE SYSTEM	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	2	ENDOCRINE SYSTEM	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	2	ENDOCRINE SYSTEM	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	2	SPECIAL SENSATION: Vision &Hearing	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	2	SPECIAL SENSATION: Vision &Hearing	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	2	ORAL CAVITY	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	2	GASTROINTESTIONA L TRACT	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	2	GASTROINTESTIONA L TRACT	Physiology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

132. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Medical physiology and general physiology book
Special requirements (including, for example, workshops, seminars, software and websites)	Organising workshops and seminars (seminars) to discuss various topics in physiology
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

Laboratory sessions

No.	Title of the sessions	Hours
1	Collection of Blood Samples	2
2	Blood Smears	2
3	Differential WBCs	2
4	Differential WBCs	2
5	Total Count of WBCs	2
6	Total Count of RBCs	2
7	Estimation of Haemoglobin	2
8	Packed cell volume and Erythrocytes indices	2
9	Fragility Test	2
10	Blood groups	2
11	Homeostasis	2
12	Platelets Count	2
13	Measurement of blood pressure &pulse rate	2
14	Measurement of body temperature &respiratory rate	2
15	Effect of exercise on blood pressure and respiratory rate	2
16	Examination of Cranial nerves	2
17	Examination of reflexes	2
18	Examination of reflexes	2
19	Vision	2
20	Hearing	2
21	Taste	2

No.	Title of the sessions	Hours
22	Smell	2
23	Resuscitation & Artificial respiration	2
24	Resuscitation & Artificial respiration	2
25	Stimulation and collection of salivary secretion	2
26	Physiology of Skeletal muscles	2
27	Physiology of Skeletal muscles	2
28	Physiology of Skeletal muscles	2
29	Regulation of The Heart	2
30	Regulation of The Heart	2
Total		60

133. Educational Institution	Kut University College
134. University Department/Centre	Department of Dentistry
135. The name/code of the Academic Programme	CS103/Computer Sciences
136. Programme included	Computer Science
137. Available Academic Courses	Laboratories
138. Academic Study System/year	The first and second semesters of the first stage
139. Number of hours (total)	30 theoretical hours
140. Preparation Date of this Description	2024-2023-.

141.Objectives of the Academic Programme

Introduction to Computer Science, where students learn the performance of computers, supported methods, software, and using computers medical fields

142. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)
A.1 - Teaching the students ways to use the computer
A.2 - How to use software applications

B. Programme Skill Objectives
B.1 - Student instruction in computer use functions
B.2 - Medical computer use

Methods of Teaching and Learning

- Educational methods and computers
- Student guidance on some websites to use them.

Assessment Methods

- Practical examinations
- Quiz examinations

C. Thinking Skills
C.1 - Enhance thinking skills through problem-solving learning.
C.2 - Gaining the basic principles of the learning curriculum.
C.3 - Developing student capacity for discussion and dialogue.
C.4 - Encouraging students to connect the use of information technology to their work of dentists

Methods of Teaching and Learning

- Lessons that assess student research and instruction on ways to confront and solve problems
- Continue the way the students think, how they make expression and how quickly they respond.

Assessment Methods

- Practical examinations

D. General and gained skills (Other skills related to employability and personal development).

D.1 - The student is practically prepared in terms of applying the use of the computer in his or her work.
D.2 - Considering problem solving.
D.3 – Teaching of professional ethics.
D.4 - The student acquired skills to become an expert with using information technology.
D.5 - Developing student capacity to work with multiple learning tools.

143. Academic Course Structure (practice)

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
1	2	Introduction about Excels /A Look at Microsoft Excel	Computers Science	Computers labs	Practical examinations
2	2	Modifying A Worksheet	Computers Science	Computers labs	Practical examinations
3	2	Performing Calculations	Computers Science	Computers labs	Practical examinations
4	2	Formatting a worksheet/	Computers Science	Computers labs	Practical examinations
5	2	Developing a workbook	Computers Science	Computers labs	Practical examinations
6	2	Printing Workbook Contents	Computers Science	Computers labs	Practical examinations
7	2	Customizing Layout	Computers Science	Computers labs	Practical examinations
8	2	Introduction about Microsoft Power point/starting power point Formatting text	Computers Science	Computers labs	Practical examinations
9	2		Computers Science	Computers labs	Practical examinations
10	2	Using graphics and Text	Computers Science	Computers labs	Practical examinations

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
11	2	Manipulating the slides	Computers Science	Computers labs	Practical examinations
12	2	Using Multimedia Elements	Computers Science	Computers labs	Practical examinations
13	2	Add Animation	Computers Science	Computers labs	Practical examinations
14	2	Add Sound and movies	Computers Science	Computers labs	Practical examinations
15	2	Power point Management	Computers Science	Computers labs	Practical examinations
16	2	Introduction about Microsoft Access/ A look at Microsoft Access	Computers Science	Computers labs	Practical examinations
17	2	Starting Microsoft Access	Computers Science	Computers labs	Practical examinations
18	2	Part 1: Using an Existing Table	Computers Science	Computers labs	Practical examinations
19	2	Sorting& Selecting Records	Computers Science	Computers labs	Practical examinations
20	2	Using a Form& Using a Report	Computers Science	Computers labs	Practical examinations
21	2	Part 2: Creating a New Table/ Designing the	Computers Science	Computers labs	Practical examinations

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
22	2	**35. Infrastructure** Creating a Data Entry Form& Entering Data Table/ Using the Form & Importing Data	Computers Science	Computers labs	Practical examinations
23	2	Required bibliography: • The basic texts • Books • Other Chemical Bases of life, Textbook of Biochemistry, Chemistry principle and applications of Inorganic, Organic and Biochemistry	Gener l Chemistry	labs	Practical examinations
24	2	Relationships Special requirements (including, for example, workshops, seminars, (including, software and websites) example, Biochemistry **Workshops and seminars (Seminars) to discuss various subjects** Workshops in medical seminars chemistry	Computers Science	Computers labs	Practical examinations
25	2	Creating a Report/ Using Auto Report Social services (for example, guest lesson and professional training, and practical Academic Courses)	Computers Science	Computers labs	Practical examinations
26	2	Introduction about internet l.	Computers Science	Computers labs	Practical examinations
27	2	Introduction about email	Computers Science	Computers labs	Practical examinations
28	2	Browse the web	Computers Science	Computers labs	Practical examinations
29	2	Adding a web page to favourites	Computers Science	Computers labs	Practical examinations
30	2	Displaying a history visited web page	Computers Science	Computers labs	Practical examinations

144. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Windows 7 Office 2010
Special requirements (including, for example, workshops, seminars, software and websites)	**Workshops and seminars (Conferences)** **To discuss different topics in computers and software applications**
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

145. Educational Institution	Kut University College
146. University Department/Centre	Department of Dentistry
147. The name/code of the Academic Programme	Oral Histology OHT215
148. Programme included	Dentistry
149. Available Academic Courses	Theoretical lectures and laboratories
150. Academic Study System/year	Two semesters/ Second stage
151. Number of hours (total)	30 theoretical hours and 60 practical hours
152. Preparation Date of this Description	2024-2023-.

153. Objectives of the Academic Programme

to qualify dentists who can identify the types of oral and dental tissues, learn the technique of cutting tissues of the mouth and teeth in the laboratory, how to use the photomicroscope and tissue slicing devices and know the types of pigments used to dye different mouth tissues

154.Learning outputs and methods of teaching, learning and evaluation

A. <u>Cognitive Objectives (Knowledge and Understanding)</u>

A.1 - Enabling students to use the photomicroscope and cut the tissues of the mouth and teeth

A.2 - Enabling students to know the types of natural oral tissues by giving enough information about the types of microscopes used to study the histology of the clutopia and the types of tissue layers

A.3 -

A.4 -

A.5 -

A.6 -

B. Programme Skill Objectives

B.1 – Know the different types of natural oral tissues by reading slides

1. Use the photomicroscope
2. How to slice different tissues of the mouth and teeth

B.2 -

B.3 -

B.4 -

Methods of Teaching and Learning

Theoretical Lectures using
Data show LCD
In-laboratories Slider Monitor

Assessment Methods

Quarterly + Quiz + Seminars
Practical examinations

C. Thinking Skills

C.1 - Understand the importance of natural mouth tissue and how to chop it

C.2 -

C.3 -

C.4 -

Methods of Teaching and Learning

Continuing review of how they learn the types of mouth tissue by presenting them under the microscope

Assessment Methods

Practical in-laboratories exams. Show the slides to see how well they understand to use the photomicroscope and tissue slicing devices

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

D.1 - ability to diagnose tissue for oral tissue and fetal tissue

D.2 - ability to test laboratory equipment

D.3 -

D.4 -

155. Academic Course Structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Slide preparation: Sectioning, Staining	Oral Histology	Data show slides and Lab. Slide preparation	Quarterly exams + Quiz + practical exams seminars
2	1	Development of the teeth	Oral Histology	Data show slides and microscopic slides	Quarterly exams + Quiz + practical exams seminars
3	1	Morphogenesis and Histogenesis	Oral Histology	Data show slides and microscopic slides	Practical exams
4	1	Enamel: physical and chemical characters	Oral Histology	Data show slides and microscopic slides	Quarterly exams + Quiz + practical exams seminars
5	1	Amelogenesis, ameloblast life cycle	Oral Histology	Data show slides and microscopic slides	Practical exams
6	1	Clinical consideration: Genetic and local factors	Oral Histology	Data show slides and microscopic slides	Quarterly exams + Quiz + practical exams seminars
7	1	Dentine: Physical and chemical properties	Oral Histology	Data show slides and microscopic slides	Practical exams
8	1	Dentinogenesis: Different kinds of dentine	Oral Histology	Data show slides and microscopic slides	Quarterly exams + Quiz + practical exams seminars
9	1	Odontoblast life cycle, innervations theories	Oral Histology	Data show slides and microscopic slides	Practical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
10	1	Pulp: Formation and development	Oral Histology	Data show slides and Lab. Slide preparation	Quarterly exams + Quiz + practical exams seminars
11	1	Pulp stone Clinical consideration	Oral Histology	Data show slides and microscopic slides	Practical exams
12	1	Root formation	Oral Histology	Data show slides and microscopic slides	Quarterly exams + Quiz + practical exams seminars
13	1	Clinical consideration	Oral Histology	Data show slides and microscopic slides	Practical exams
14	1	Cementum: Physical and chemical characters	Oral Histology	Data show slides and microscopic slides	Quarterly exams + Quiz + practical exams seminars
15	1	Cementogenesis	Oral Histology	Data show slides and microscopic slides	Practical exams
16	1	Clinical consideration	Oral Histology	Data show slides and microscopic slides	Quarterly exams + Quiz + practical exams seminars
17	1	Periodentium	Oral Histology	Microscopic slides	Practical exams
18	1	Principles fiber grouping	Oral Histology	Data show slides	Quarterly exams + Quiz + practical exams seminars
19	1	Oral mucosa	Oral Histology	Microscopic slides	Practical exams
20	1	Non keratinized epithelium	Oral Histology	Microscopic slides	Quarterly exams + Quiz + Practical exams seminars
21	1	keratinized epithelium	Oral Histology	Microscopic slides	Practical exams
22	1	Junctional Epithelia	Oral Histology	Data show slides	Quarterly exams + Quiz + Practical exams seminars

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
23	1	Salivary glands	Oral Histology	Data show slides	Quarterly exams + Quiz + Practical exams seminars
24	1	Eruption	Oral Histology	Data show slides	Practical exams
25	1	Shedding	Oral Histology	Data show slides	Quarterly exams + Quiz + practical exams seminars
26	1	Maxillary sinus	Oral Histology	Data show slides	Practical exams
27	1	Temporomandibular joint	Oral Histology	Seminar discussion	Quarterly exams + Quiz + practical exams seminars
28	1	Histochemistry	Oral Histology	Seminar discussion	Practical exams
29	1	Identification of glycogen in oral tissue	Oral Histology	Seminar discussion	Quarterly exams + Quiz + practical exams seminars
30	1	Uses of PAS and Alcian stain	Oral Histology	Data show slides and Lab. Slide preparation	Practical exams

156. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	TEXTBOOKS OF GRBANS TENCATE
Special requirements (including, for example, workshops, seminars, software and websites)	
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

Laboratory sessions

No.	Title of the sessions	Hours
1	Slide preparation: Sectioning, Staining	2
2	Development of the teeth	2
3	Morphogenesis and Histogenesis	2
4	Enamel: physical and chemical characters	2
5	Amelogenesis, ameloblast life cycle	2
6	Clinical consideration: Genetic and local factors	2
7	Dentine: Physical and chemical properties	2
8	Dentinogenesis: Different kinds of dentine	2
9	Odontoblast life cycle, innervations theories	2
10	Pulp: Formation and development	2
11	Pulp stone, Clinical consideration	2
12	Root formation	2
13	Clinical consideration	2
14	Cementum: Physical and chemical characters	2
15	Cementogenesis	2
16	Clinical consideration	2
17	Periodentium	2
18	Principles fiber grouping	2
19	Oral mucosa	2
20	Non keratinized epithelium	2
21	keratinized epithelium	2
22	Junctional epithelia	2
23	Salivary glands	2
24	Eruption of deciduous teeth	2
25	Shedding	2
26	Maxillary sinus	2
27	Temporomandibular joint	2
28	Histochemistry	2
29	Identification of glycogen in oral tissue	2
30	Uses of PAS and Alcian stain	2
Total		60

157. Educational Institution	Kut University College
158. University Department/Centre	Department of Dentistry
159. The name/code of the Academic Programme	General anatomy ANT201
160. Programmes included	Anatomy of a human body
161. Available Academic Courses	Lectures and labs
162. Academic Study System/Year	First and second semesters of the second stage
163. Number of hours (total)	30 theoretical hours and 60 practical hours
164. Preparation Date of this Description	2024-2023-.

165. Objectives of the Academic Programme

The scientific preparation of students in relation to the human anatomy, especially in relation to the subject of study.

The head and neck anatomy and its relationship to their competence as dentists.

166. Programme outputs and teaching, learning and assessment methods

A. <u>Cognitive Objectives (Knowledge and Understanding)</u>
A.1 - Acquiring knowledge about human anatomy
A.2 - Focusing on the head and neck anatomy
A.3 – Relevance to their competence as dentists.

B. <u>Programme Skill Objectives</u>
B.1. - Relationship of human anatomy to student work as dentists.
B.2. - Gaining full knowledge of the organs of the human body.
B.3 -

Methods of Teaching and Learning

- Lectures using (Data show) (power point)
- Training videos
- Guiding students on some websites to benefit from them.
- Practical laboratory on anatomical models

Assessment Methods

- Theoretical exams.
- Practical examinations.
- Oral examinations
- Written examinations

C. Thinking skills

C.1 - promoting thinking skills through problem-solving learning.
C.2 - Gaining the basic principles of the learning curriculum.
C.3 - Developing student capacity for discussion and dialogue.
C.4 - Encouraging students to connect knowledge to human anatomy and acting as dentists

Methods of Teaching and Learning

- Lectures that evaluate student research and instruction on ways to confront and solve problems.
- Continue the way the student thinks, how they make expression and how quickly they respond.
- Practical lessons on anatomical models.

Assessment Methods

- Theoretical exams.
- Practical examinations.

D. General and gained skills (Other skills related to employability and personal development).

D.1 - Student preparation in the practice of terms of applying knowledge gained in human anatomy to their work.
D.2 - Considering problem solving.
D.3 - Teaching professional ethics.
D.4- Student acquisition of skills to become a dentist capable of treating patients.
D.5 - Development of student capacity to deal with multiple means of learning.

167. Academic Course structure (Theoretical side)					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Scalp	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
2	1	Face	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
3	1	Parotid gland	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
4	1	Facial artery	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
5	1	Temporal fossa and infra temporal fossa	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
6	1	Temporal fossa and infra temporal fossa	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
7	1	Temporal fossa and infra temporal fossa	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
8	1	Temporal fossa and infra temporal fossa	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
9	1	Orbit	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
10	1	Orbit	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
11	1	Nasal cavity	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
12	1	Nasal cavity	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
13	1	Cranial nerves	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
14	1	Cranial nerves	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
15	1	Central nervous system	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
16	1	Neck	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
17	1	Neck	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
18	1	Neck	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
19	1	Pharynx	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
20	1	Alimentary tract	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
21	1	Alimentary tract	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
22	1	Alimentary tract	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
23	1	Alimentary tract	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
24	1	Alimentary tract	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
25	1	Major body vessels	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
26	1	Major body vessels	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
27	1	Anatomy of nerve block	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
28	1	Anatomy of nerve block	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
29	1	Lymph drainage of head and neck	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
30	1	Spaces of head and neck	General anatomy	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

The Practical side					
Week	**Hours**	**Programme Glossary**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	2	Scalp	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
2	2	Face	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
3	2	Parotid gland	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
4	2	Facial artery	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
5	2	Temporal fossa and infra temporal fossa	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
6	2	Temporal fossa and infra temporal fossa	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
7	2	Temporal fossa and infra temporal fossa	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
8	2	Temporal fossa and infra temporal fossa	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations

Week	Hours	Programme Glossary	Academic Course name	Teaching Method	Assessment method
9	2	Orbit	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
10	2	Orbit	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
11	2	Nasal cavity	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
12	2	Nasal cavity	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
13	2	Cranial nerves	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
14	2	Cranial nerves	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
15	2	Central nervous system	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
16	2	Neck	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations

Week	Hours	Programme Glossary	Academic Course name	Teaching Method	Assessment method
17	2	Neck	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
18	2	Neck	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
19	2	Pharynx	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
20	2	Alimentary tract & associated glands	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
21	2	Alimentary tract & associated glands	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
22	2	Alimentary tract & associated glands	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
23	2	Alimentary tract & associated glands	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
24	2	Alimentary tract & associated glands	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations

Week	Hours	Programme Glossary	Academic Course name	Teaching Method	Assessment method
25	2	Main body vessels	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
26	2	Main body vessels	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
27	2	Anatomy of nerve block	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
28	2	Anatomy of nerve block	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
29	2	Lymph drainage of head and neck	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations
30	2	Spaces of head and neck	General anatomy	Use anatomical models as well as display video lesson	Quarterly, half-year and final practical and oral examinations

168. Infrastructure

Required bibliography: • The basic texts • Course books • Other	1. Snell's Clinical anatomy 7th edition. 2. Netter's head and neck anatomy for dentistry2nd edition 2012.

Special requirements (including, for example, workshops, seminars, software and websites)	Labs and workshops as well as the use of published lessons on the faculty site
Social services (for example, guest lesson and professional training, and practical Academic The Courses)	study includes practical training on anatomical models

Laboratory session

No.	Title of the sessions	Hours
1	Scalp	2
2	Face	2
3	Parotid gland	2
4	Facial artery	2
5	Temporal fossa and infra temporal fossa	2
6	Temporal fossa and infra temporal fossa	2
7	Temporal fossa and infra temporal fossa	2
8	Temporal fossa and infra temporal fossa	2
9	Orbit	2
10	Orbit	2
11	Nasal cavity	2
12	Nasal cavity	2
13	Cranial nerves	2
14	Cranial nerves	2
15	Central nervous system	2
16	Neck	2
17	Neck	2
18	Neck	2
19	Pharynx	2
20	Alimentary tract & associated glands	2
21	Alimentary tract & associated glands	2
22	Alimentary tract & associated glands	2
23	Alimentary tract & associated glands	2
24	Alimentary tract & associated glands	2
25	Main body vessels	2
26	Main body vessels	2
27	Anatomy of nerve block	2
28	Anatomy of nerve block	2
29	Lymph drainage of head and neck	2
30	Spaces of head and neck	2
Total		60

1. **Educational Institution**	Kut University College
2. **University Department \ Centre**	Department of Dentistry
3. **The name/Code of the Academic Course**	Biosafety and Biosecurity BS216
4. Academic Study System	One lecture every two weeks
5.Academic Course/Year	Two semesters of second stage
6. Number of hours (total)	15 theoretical hours
7.Preparation Date of this Description	2024-2023

8- Course aim

Introduction to the science of safety and biosecurity and teaching the student how maintain on the safety of student, the institution and the society in general.

8-Learning outcomes and methods of teaching, learning and assessment

A- knowledge and understanding

A1- Identifying of terminology of biosafety and security

A2- Identifying of dangers of microbes and chemical materials inside the laboratories and medical clinics.

A3-Enable the student to possess sufficient knowledge about laboratory equipment and how to maintain it

B-Subject-specific skills

B1-Develop the student's ability to link between theoretical and practical information and analyze it to reach the best methods and results

B2- Enable the student to know the practical methods adopted in the management of laboratory equipment

B3- Contribute to reducing biological and chemical risks in scientific laboratories

B4- Training the student to manage sudden accidents in laboratories.

Teaching and learning methods

-Lectures by using [power point (data show)]

-Educational movies

- Guiding students to some websites to benefit from them.

- Practical lab

Evaluation methods

-Theory exam
-Practical exam
- Oral exam
- Quick exam

C- Thinking skills

C1- Enhance thinking skills through problem-based learning

C2- Acquire the basic principles stipulated in the learning curriculum

C3-Develop the student's ability on discuss and debate

C4- Develop the student's ability on success management for maintain on laboratories and general health.

Evaluation methods

-Theory exam
- Practical exam

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

4. Course structure (Theoretical part)

Evaluation method	Learning method	Unit/subject name	Article vocabulary	Hours	Week
D- 4- The ac … and vitality … seasonal and final exam	Theoretical lecture by power point	… the student to beco … Biosafety &Biosecurity	Introduction to biosafety &biosecurity	… f achieving t … 1	1
Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Terms &concept of biosafety &biosecurity	1	2
Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Biosafety barriers in labs	1	3
Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Biological agents	1	4
Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Biorisk &Biohazard	1	5
Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Biorisk management system	1	6
Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Biological wastes types	1	7
	Half-year Break				
Evaluation method	**Learning method**	**Unit/subject name**	**vocabulary**	**Hours**	**Week**
Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Transport & storage of biological material	1	8
Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Personal protection Equipment (PPE) in lab & clinics	1	9

Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Facility design	1	10
Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Biosafety levels	1	11
Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Biosafety cabinet (BSC)	1	12
Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Risk characterization in biosecurity	1	13
Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Biosafety in dentistry clinics	1	14
Short, seasonal and final exam	Theoretical lecture by power point	Biosafety &Biosecurity	Accident response	1	15

11. Course structure (Particle part)

Evaluation method	Learning method	Unit/subject name	Article vocabulary	Hours	Week
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	Introduction to laboratory biosafety	1	1
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	The Occupational Safety and Health	1	2
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of	Biosafety& Biosecurity	Biosafety barriers in labs	1	3

	the practical part				
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	Biological agents	1	4
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	Biorisk &Biohazard	1	5
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	Types of hood/ventilation systems	1	6
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	Biological wastes	1	7
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	Transport &storage of valuble biological material (VBM)	1	8
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	Personal protection Equipment (PPE) in lab	1	9

assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	Facility design	1	10
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	Biosafety levels and risk groups	1	11
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	Biosafety cabinet	1	12
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	Symbols and signs of biosafety	1	13
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	Food &label additives	1	14
assessment of the practical part, short and final exam	Explanation of the theoretical part using P.P and application of the practical part	Biosafety& Biosecurity	Biosafety training	1	15
5. Infrastructure					

1.World Health Organization. Laboratory biosafety manual 3rd edition(2004) **2- WHO.Biorisk management.Laboratory biosecurity guidance (2006)** **3. CEN Workshop Agreement (CWA).(2011)** **4. World Health Organizaton. Laboratory biosafety manual 4th edition (2022)**	Required reading: Basic text ▪ Course books ▪ Others ▪
Organizing workshops and seminars to discuss various topics in biosafety and security.	Special requirements (including, for example, workshops, periodicals, software and websites)
	Social services (including guest lectures, professional training and field studies)

1. Educational Institution	Kut University College
2. University Department/Centre	Department of Dentistry
3. The name/code of the Academic Programme	Microbiology / MB 316
4. Programme included	Microbiology – Dentistry
5. Available Academic Courses	Student attendance is 100% for all academic year
6. Academic Study System /Year	Two semesters /Third stage
7. Number of hours (total)	60 theoretical hours and 60 practical hours
8. Preparation Date of this Description	2024-2023-.

9. Objectives of the Academic Programme

The aim of the microbiology lesson is to identify the principles of microbiology and epidemiological diseases, and this Academic Course aims to identify the characteristics of microbiology in general and the special characteristics of patho-genic microorganisms such as bacteria, fungi, viruses, and mechanics of pathology by these organisms and how to dif-ferentiate between each of these pathogens and the tests that they reveal. It aims to study the immune system, the me-chanics of the body's defences and the immune response to diseases and look at ways of sterilisation

10. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding) A.1 - Identify the microscopic organisms that are useful to humans A.2 - Identify the microscopic pathological life A.3 - Ways they can diagnose it (laboratory) A.4 - Identifying body immunity and types (Natural and acquired) A.5 - Relationship between human body and microorganisms in general A.6 -Identify methods of sterilisation

B. Programme Skill Objectives

B.1 - Learn modern methods of diagnosing pathological microbiology
B.2 - Identify microscopic organisms that cause new epidemics
B.3 - Multiple causes of various diseases

Methods of Teaching and Learning

Interactive methods

Assessment Methods

Long, short and quarterly examinations

C. Thinking Skills
C.1 - Diagnostic of the mechanism of pathogens by microorganisms
C.2 - Handling of epidemic pathogens (infectious)

Methods of Teaching and Learning
Theoretical Lessons

Assessment Methods

Examinations

D. General and gained skills (other skills related to employability and personal development).
D.1 -student preparation in practice
D.2 –
D.3 -
D.4 -

169. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	2	Morphology and Ultra-structures of M.Os: Eukaryotic Vs Prokaryotic cells:	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	2	Growth curve (diagram) stage	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	Physiology and metabolism of M.O.	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	2	Sterilization	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	Antibiotic and Chemotherapy	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	2	Immunology (part1)	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	2	Immunology (part2)	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	2	Immunology (part3)	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	2	Immunology (part4)	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
10	2	The streptococci	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	2	The staphylococci	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	2	Lactobacilli:	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	2	Corynebacterium: C. Diphtheriae & Diphtheroids	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	2	Bacillus	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	2	Clostridium	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	2	Mycobacterium	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	2	Enterobacteriaceae (part1)	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	2	Enterobacteriaceae (part2)	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	2	Fusiform	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
20	2	Spirochaetes	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	2	*Actinomyces* and other Filamentous bacteria:	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	2	Actinobacillus:	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	2	Miscellaneous micro-organism	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	2	Ecology of the oral flora	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	2	Ecology of the oral flora	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	2	Dental plaque and dental caries:	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	2	Virology (part 1)	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	2	Virology (part2)	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	2	Virology (part3)	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	2	Oral mycology & Parasitology:	Bacteriology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

170. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	- Review of medical microbiology and immunology - Medical microbiology - Clinical microbiology - Diagnostic microbiology
Special requirements (including, for example, workshops, seminars, software and websites)	Workshops and seminars (Seminars) to discuss various subjects in microbiology
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

Laboratory session

No.	Title of the sessions	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 (colonial morphology and cultural characteristics).	2
9	2. Microscopically 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

No.	Title of the sessions	Hours
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	Neisseria spp.	2
29	Virology	2
30	Mycology	2
Total		60

171. Educational Institution	Kut University College
172. University Department/Centre	Department of Dentistry
173. The name/code of the Academic Programme	Pharmacology /PHG317
174. Programmes included	Pharmacology (Dentistry)
175. Available Academic Courses	Student attendance is 100% for all academic year
176. Academic Study System /Year	Two semesters/ third stage
177. Number of hours (total)	60 theoretical hours and 60 practical hours
178. Preparation Date of this Description	2024-2023-.

179. Objectives of the Academic Programme:

To prepare students at a high level of scientific knowledge and accuracy in dealing with medications used and prescribed in their specialty as a dentist and other specialties (medicines in general), so that no kind of interference can occurs.

179. Programme outputs and teaching, learning and assessment methods

A. **Cognitive Objectives (Knowledge and Understanding)**
A.1 - Learning medicines
A.2 - Learning their effects
A.3 - Lecturing on medicines
A.4 - Precautions for using medications
A.5 -
A.6 -

B. **Programme Skill Objectives**
B.1 -Dealing with medicines
B.2 – Dealing with of laboratory animals
B.3 -
B.4 -

Methods of Teaching and Learning

Theoretical lectures on Data Show

Assessment Methods

Long and short exams

C. **Thinking Skills**
C.1 – Ability to solve problems
C.2 -Capability of leading
C.3 -
C.4 -

Methods of Teaching and Learning

Practical and theoretical lectures.

Assessment Methods

Examinations

D. <u>General and gained skills (other skills related to employability and personal development).</u>

D.1 – Students are scientifically prepared.
D.2 -
D.3 -
D.4 -

180. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	2	General Pharmacology	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	2	Pharmacokinetics & Pharmacokinetics	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	Cholinergic system (agonists) & Cholinergic antagonists or blockers	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	2	Adrenergic system & Adrenergic Agonists	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	Adrenergic Antagonists	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	2	Management of hypertension	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	2	Management of heart failure	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	2	Management of angina	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	2	Management of arrhythmias	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
10	2	Management of hyperlipidaemias	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	2	Management of hyperglycaemia	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	2	Anxiolytic and Hypnotic drugs	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	2	Narcotic analgesics	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	2	Local anaesthetics & General anaesthetics	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	2	NSAIDs & Disease- modifying antirheumatic agents and drugs used in the treatment of gout	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	2	Chemotherapeutic agent Penicillin's &Cephalosporins	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	2	Protein synthesis inhibitors 1 & Protein synthesis inhibitors 2	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	2	Quinolones, Folic Acid Antagonist, and Urinary Tract Antiseptics	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	2	Antimycobacterial& Antiprotozoal	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
20	2	Antifungal & Drugs used for supragingival plaque	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	2	Antiviral	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	2	Autacoids	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	2	Drugs acting on respiratory system	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	2	Adrenocorticosteroid Hormones	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	2	Drugs acting on GIT and vomiting manage-ment	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	2	Immunomodulating drugs	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	2	Diuretics	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	2	Thyroid hormones and antithyroid drugs	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	2	Anticoagulants and antianemic medications	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
30	2	Sex hormones and contraceptive drugs	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
31	2	Anticancer medications	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
32	2	Toxicology	Pharmacology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

181. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Lippincott illustrate review of pharmacology
Special requirements (including, for example, workshops, seminars, software and websites)	Workshops and seminars (Seminars) to discuss various subjects in medical
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

Laboratory session

No.	Title of the sessions	Hours
1	Routes of drug administration	2
2	Dosage forms	2
3	Clinical parameters in drug pharmacokinetics	2
4	Clinical parameters in drug pharmacokinetics	2
5	Investigations of the effects of β-blockers on CVS	2
6	Investigations of the effects of β-blockers on CVS	2
7	Effects of drugs on blood pressure	2
8	Effects of drugs on blood pressure	2
9	Curare-physostigmine drug antagonism	2
10	Curare-physostigmine drug antagonism	2
11	The effects of Atropine	2

No.	Title of the sessions	Hours
12	Effects of parasympathomimetic drugs on glandular secretions	2
13	The effects of nitrates on human volunteers	2
14	The response of human skin to histamine and adrenaline	2
15	Antibiotics	2
16	Evaluation of anti-inflammatory agents	2
17	Evaluation of anti-inflammatory agents	2
18	Evaluation of analgesics	2
19	Evaluation of analgesics	2
20	Local Anaesthesia	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	Oral conditions and their treatment	2
29	Dental health and endocarditis prevention	2
30	Dental health and endocarditis prevention	2
Total		60

182. Educational Institution	Kut University College
183. University Department/Centre	Department of Dentistry
184. The name/code of the Academic Programme	Community Dentistry / CM318
185. Programmes included	Dentistry
186. Available Academic Courses	Theoretical lectures and practical labs
187. Academic Study System /Year	Two semesters/Third stage
188. Number of hours (total)	30 theoretical hours
189. Preparation Date of this Description	2024-2023-.
190. Objectives of the Academic Programme	
Providing information to students about the identification of oral pathology and its measure in the community to achieve the goal of control and prevention in the community through preventive programmes.	

191. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding) A.1 - Drafting information to enable students to learn and understand them A.2 - Increasing student knowledge of ways to check teeth for decay and gum inflammation

A.3 - Giving instructions and advice for the correct placement of a dentist during screening and treating while sitting on Dental Chair

B. Programme Skill Objectives

B.1 - Gaining experience and information that helps them to identify the disease and know its causes

B.2 – Identifying the device for tooth and learn the correct position for patient and dentist when sitting on a Dental Chair

B.3 -Methods of screening tooth decay, gum inflammation, microbial plaques and calcification of teeth that help it to be a successful dentist in their treatment with patients.

Methods of Teaching and Learning

1. Data Show
2. Educational Movies
3. LCD
4. Smart boards
5. Spin cameras
6. Electronic displays

Assessment Methods

1. Daily exams for practical/ theoretical subjects
2. Clinical examination
3. Quarterly exam
4. Semester exam
5. Final Exams

C. Thinking Skills

C.1.- Assessment of social behaviour and student achievements

C.2.- Prompting students to solve problems and having a distinct thinking

C.3.- Qualifying students to lead teams to serve, treat and educate the community and patients

Methods of Teaching and Learning

Giving all information about oral diseases, especially those of the community, how to prevent them, and following up students through their expression, thinking, communication and response.

Assessment Methods

1. Doing daily and final exams for clinic, lecture and grading
2. Testing student response with an intuitive speed
3. Keeping up with their daily preparation

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

D.1.- Professional preparation and encouraging the student to behave positively in his or her daily life D.2.- Scientific preparation and prompting student to communicate in other scientific areas
D.3.- Cultural preparation and student personal refinement
D.4 - Employment of skills gained so that the student becomes a dentist capable of treating patients

192. Academic Course Structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	2	Dental public health Procedural steps in dental public health	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	2	Primary health care	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	Dental indices	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	2	Indices used for dental caries assessment	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2		Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	2	Indices used for oral hygiene and periodontal health assessment	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	2	Biostatistics and dental science dental caries	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	2	Measures of central tendency &dispersion	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	2	Dental treatment needs and demand	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	2	Dental care for special groups Dental manpower Planning	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	2	Examination	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	2	Epidemiology of dental caries	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
13	2	Forensic dentistry	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	2	Age assessment in forensic dentistry	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	2		Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	2	Fluoridation as a public health measure	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	2	Fluoridation, mechanism and effects	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	2	Dental ancillaries Personnel	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	2	Introduction to epidemiology	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
20	2	Tools of measurement in epidemiology	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	2	Epidemiology of periodontal disease	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	2	Epidemiological Studies	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	2	Dental Health Education	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
24	2	Principles of Health Education	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	2	School of Dental Health Programme	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	2	Occupational Hazards	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	2	Environment and Health	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	2	Professional Ethics	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	2	Dental patient relationships	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	2	Infection control	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
31	2	Sterilization	Community	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Clinical requirements

No.	Title of the sessions	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
No.	**Title of the sessions**	**Hours**

15	Prevention of dental caries	2
16	Fluoride	2
17	Periodontal diseases	2
18	Indices for plaque assessment	2
19	Clinical examination	2
20	Clinical examination	2
21	Indices for calculus assessment	2
22	Clinical examination	2
23	Clinical examination	2
24	Gingival disease indices	2
25	Clinical examination	2
26	Clinical examination	2
27	Periodontal diseases prevention	2
28	Tooth brushing / mechanical plaque control	2
29	Clinic……assistant	2
30	Clinic……assistant	2
Total		60

193. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	1. Principle and practice of public health dentistry by Krishna and Dasar,2010 2. Community dentistry by Siri and Sikri, 2008 3. Primary preventive dentistry by Harris and Christen ,1995 External sources Essentials of preventive and community dentistry by Peter,2003
Special requirements (including, for example, workshops, seminars, software and websites)	
Social services (for example, guest lesson and professional training, and practical Academic Courses)	Conduct a health education on the mouth and teeth for school students and some institutions

194. Institution	Kut University College
195. University Department/Centre	Department of Dentistry
196. The name/code of the Academic Programme	RSD319 Conservative Dentistry
197. Programmes included	Conservative Dentistry (Dentistry)
198. Available Academic Courses	100%
199. Academic Study System/Year	Two semesters/ Third Stage
200. Number of hours (total)	60 theoretical hours and 120 practical hours
201. Preparation Date of this Description	
202. Objectives of the Academic Programme	
Students are trained on filling, dental amalgam, denture making and prosthodontics before they begin clinically treating patients.	

203. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 – To formulate and programme information in such a way as to enable the students to understand it and increase knowledge regarding the theoretical and practical aspects

A.2 - Providing important information and treatment steps.

A.3 -

A.4 -

A.5 -

A.6 -

B. Programme Skill Objectives

B.1 - Students are trained in dental preparation by types of crowns

B.2- Teaching the students to work on the teeth that are fixed on the heads of the phantom

Methods of Teaching and Learning

Data Show, Lecture, LCD and Educational Movies,

Assessment Methods

Theoretical, practical (clinical) and quiz exams.

C. Thinking Skills

C.1 – ability to solve problems

C.2 – ability to leadership

C.3 -

C.4 -

Methods of Teaching and Learning

Theoretical and practical lessons (stimulus and response)

Assessment Methods

Examinations

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

D.1 - Student preparation in practice in terms of applying knowledge gained in dental treatment on the heads of the phantom.

D.2 -

D.3 -

D.4 -

204. Academic Course structure

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
1	1	Definitions: - Introduction to Fixed Prosthodontics. - Types of crowns. - Purposes of crown construction. - Steps in crown construction. - Components of bridge.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Definition of operative dentistry: a. Aim of operative dentistry b. General terminology			
2	1	Definitions (continued):	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Principles of cavity preparations: a. Steps of cavity preparation b. Types of caries			
3	1	Definitions (continued):	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Hand and rotary instruments and general instrumentation of cavity preparation			
4	1	Biomechanical principles of tooth preparation: • Preservation of sound tooth • Retention and • Resistance form. • Marginal integrity. • Structural durability.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Sterilization of operative instruments			
5	1	Biomechanical principles of tooth preparation (continued):	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Amalgam cavity preparations for class 1 (buccal pit, palatal pit)			
6	1	Biomechanical principles of tooth preparation (continued:)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Amalgam cavity preparations for class 1 (lower 2^{nd} premolar, lower 1^{st} premolar)			

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
7	1	Full metal crown: Indications, contra- indications, advantages, disadvantages, steps of preparation.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Amalgam cavity preparations for class 1 (upper 1st molar with palatal extension)			
8	1	Full metal crown (continued):	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Amalgam cavity preparations for class 1 (lower 1st molar with palatal extension)			
9	1	Porcelain fused to metal crown: Indications, contra- indications, advantages, disadvantages, steps of preparation.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Amalgam cavity preparations for class I1 (part 1)			
10	1	Porcelain fused to metal crown (continued):	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Amalgam cavity preparations for class I1 (part 2)			
11	1	Complete ceramic crown (Porcelain Jacket Crown: Indications, contrap- indications, advantages, disadvantages, steps of preparation.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Amalgam cavity preparations for class I1 MOD			
12	1	Complete ceramic crown (Porcelain Jacket Crown(continued):	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Amalgam cavity preparations for class I1I			
13	1	Partial veneer crown (three-quarter crown): Indications, contrap- indications, advantages, disadvantages, steps of preparation.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Amalgam cavity preparations for class V			

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
14	1	Partial veneer crown (three-quarter crown):	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Cavity liners and cement bases			
15	1	Post crown: Indications, contra-indications, factors to be considered in the assessment of a tooth for post	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	cement bases (Zinc phosphate cement, Zinc oxide – eugenol cements)			
16	1	Post crown (continued):	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	cement bases (Zinc polycarboxylate cement, Glass ionomer cement, Resin cement)			
17	1	Impression for crown and bridge work: - Objectives of taking impression. - Requirements of an acceptable impression. - Impression materials. - Impression techniques.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Cavity liner (cavity varnish, Bonding, Calcium hydroxide			
18	1	Impression for crown and bridge work (continued):	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Dental amalgam alloys (material)			
19	1	Impression for crown and bridge work (continued):	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Dental amalgam placement (part 1)			
20	1	Provisional restoration: Definition, objectives, types (prefabricated, custom-made, and laboratory-made)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Dental amalgam placement (part 2)			

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
21	1	Provisional restoration (continued):	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Complex amalgam restoration			
22	1	Working cast and dies: Advantages of working cast, definition of die, types of die material, techniques of producing die.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Pin retained amalgam restoration			
23	1	Working cast and dies (continued):	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Failures in amalgam restorations			
24	1	Waxing.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Tooth coloured restorations composite			
25	1	Investing.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Composite resin (material)			
26	1	Casting.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Principles of cavity preparation for composite restoration (CL III, IV and V)			
27	1	Finishing of the casting.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Composite resin placement (part 1)			
28	1	Clinical try-in	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Composite resin placement (part 2)			

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
29	1	Cementation: Types of cements used - for cementation of crown restoration-Techniques – of cementation	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Failures in anterior restorations			
30	1	Cementation(continued):	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1	Fluoride realizing materials			

Laboratory session

No.	Title of the sessions 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 quizzes 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

No.	Title of the sessions Operative Dentistry	Hours
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 II DO cavity of lower 2nd premolar.	2
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 lower2nd 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

Laboratory session

No.	Title of the sessions Preclinical Fixed Prosthodontics	Hours
1	Introduction on the lab work, phantom heads and teeth manikins	2
2	Demonstration about the rotary instrument and how to cut geometrical cavities (Part 1).	2
3	Demonstration about the rotary instrument and how to cut geometrical cavities (Part 2).	2
4	Demonstration on full metal crown preparation on lower 1st molar.	2
5	Demonstration on full metal crown preparation on lower 2nd molar.	2
6	Practicing lab under supervision.	2

No.	Title of the sessions **Preclinical Fixed Prosthodontics**	Hours
7	Practicing lab under supervision.	2
8	Practical assessment of full metal crown preparation on lower 1st molar.	2
9	Demonstration on porcelain fused to metal crown preparation on upper central incisor.	2
10	Demonstration on porcelain fused to metal crown preparation on upper lateral incisor.	2
11	Practicing lab under supervision.	2
12	Practicing lab under supervision.	2
13	Practical assessment of porcelain fused to metal crown preparation on upper central incisor.	2
14	Demonstration on post crown preparation on extracted root canal filled upper canine.	2
15	Demonstration on post crown preparation on extracted root canal filled lower 1st premolar.	2
16	Practicing lab under supervision.	2
17	Practicing lab under supervision.	2
18	Practical assessment of post crown preparation on extracted root canal filled upper canine.	2
19	Demonstration on special tray construction.	2
20	Demonstration on impression materials used in Fixed Prosthodontics.	2
21	Demonstration on impression techniques in Fixed Prosthodontics.	2
22	Demonstration on die construction using dowel pin.	2
23	Demonstration on provisional restoration (Part 1): Materials.	2
24	Demonstration on provisional restoration (Part 2): Techniques.	2
25	Demonstration on direct waxing for post crown construction on upper canine.	2
26	Demonstration on indirect waxing technique.	2
27	Demonstration on investing and casting.	2
28	Demonstration on cleaning and finishing of the cast restoration.	2
29	Final assessment of the practical work.	2
30	Final practical exam.	2
Total		60

205. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Contemporary fixed prosthodontics, Fundamental Consideration in Fixed Prosthodontics Art & Science of operative dentistry, Restorative Dentistry Walmsley et al, Fundamental in Operative Dentistry.

Special requirements (including, for example, workshops, seminars, software and websites)	Laboratories
Social services (for example, guest lesson and professional training, and practical Academic Courses)	The study includes practical dental training on the heads of the phantom

206. Educational Institution	Kut University College
207. University Department/Centre	Department of Dentistry
208. The name/code of the Academic Programme	Dental Radiology ORR320
209. Programmes included	Dentistry
210. Available Academic Courses	Lectures, seminars, workshops and summer trainings
211. Academic Study System/year	Two semesters/Third stage
212. Number of hours (total)	30 theoretical hours and 60 practical hours
213. Preparation Date of this Description	2024-2023-.

214. Objectives of the Academic Programme:
The aim of the programme is to qualify dentists who can read and diagnose x-ray, can operate x-ray apparatus correctly and have knowledge in dental radiology and able to deal with the risks of radiation.

215. Programme outputs and teaching, learning and assessment methods

A. <u>Cognitive Objectives (Knowledge and Understanding)</u> A.1 - To enable the student to use the radiators correctly A.2 - explain the importance and risks of radiation protection and prevention A.3 - enable the students to read and diagnose radiological images of various types
A.4 - give adequate information on the latest types of equipment and diagnostic methods in the field of oral and maxillofacial x-rays.
D.2 -
A.5 -
A.6–

B. Programme Skill Objectives
B.1 -Reads radiological images
B.2 -Use of devices
B.3 -The ability to protect against radiation hazards
B.4 –

Methods of Teaching and Learning

Theoretical Lessons
Scientific discussions and seminars using screens (LCD)
Use of methods of clarification such as radiographs and videos

Assessment Methods

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

C. Thinking Skills
C.1 - Student integration with the subjects and beginning to consider solutions to address obstacles encountered in the Academic Course of the work
C.2 -
C.3 -
C. 4–

Methods of Teaching and Learning

Theoretical Lectures
Scientific discussions and seminars using screens (LCD)
Use of methods of clarification such as radiographs and videos

Assessment Methods

Weekly exams
Half-year and end-of-year exams
Assessment of the seminars prepared by students
Assessment of the practical product

D – General and gained skills (other skills related to employability and personal development.)

D.1- Lecturers bring some sophisticated radiological image models that cannot be found within the Organisation. It is explained and presented to students for the purpose of keeping up with the scientific Academic Course in the field of oral and maxillofacial x-rays.

D.2 -

D.3 -

D.4–

216.

Hours	Theoretical content	Week	Academic Course name	Teaching Method	Assessment Method
1	Fundamentals of radiology	1	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Production & interaction of X-ray	2	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	X-ray film & processing cycle	3	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Factors relating to the production of radiograph	4	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Ideal radiographic projections & artifacts	5	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Hazards of X-radiation & its biological effects	6	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Protection from X- radiation in the clinic of radiography	7	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Intraoral techniques 1	8	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Intraoral techniques 2	9	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Darkroom	10	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Patient's management	11	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Localization techniques	12	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Radiographic survey	13	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars

Hours	Theoretical content	Week	Academic Course name	Teaching Method	Assessment Method
1	Viewing techniques (conventional & digital)	14	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Dental panoramic radiography (principals)	15	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Dental panoramic radiography (anatomy)	16	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Introduction for normal radiographic anatomy	17	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Radiographic appearance of normal Intraoral landmarks	18	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Radiographic appearance of common diseases of teeth & supporting structure	19	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Extra oral radiography	20	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Digital imaging system	21	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Computed Tomography (theory & physics)	22	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Computed Tomography (clinical application in maxillofacial region).	23	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	CBCT (theory & advantages over Conventional CT).	24	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	CBCT (clinical applications in Maxillofacial region).	25	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	TMJ Radiography (normal & pathological)	26	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	TMJ Imaging	27	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars

Hours	Theoretical content	Week	Academic Course name	Teaching Method	Assessment Method
1	MRI (theory &physics)	28	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	MRI (clinical applications)	29	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
1	Radiography &Implant ology	30	oral and maxillofacial x-rays	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars

217. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	
Special requirements (including, for example, work-shops, seminars, software and websites)	
Social services (for example, guest lesson and pro-fessional training, and practical Academic Courses)	

Clinical requirements

No.	Title of the sessions	Hours
1	"Fundamentals of radiology: Introduction, Similarity and differences between x-ray and visible light, component of x- ".ray machine	2
2	Fundamentals of radiology: X-ray tube, Generation of x-ray, Selection of target material	2
3	Production & interaction of X-ray: X-ray beam shape and position, Inverse square low, Rectifica-tion, Filtration, and Collimation. X-ray spectrum, half value layer, X-ray measuring units.	2
4	X-ray film & processing cycle X-ray films, intra-oral, chemical composition, film type and speed, extra-oral, screen and non screen, film properties, density, contrast, details.	2
5	Ideal radiograph	2
6	Intraoral techniques	2
7	Hazards & protection	2
8	Dental panoramic radiography	2
9	Clinical work	2
10	Clinical work	2

No.	Title of the sessions	Hours
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

218. Educational Institution	Kut University College
219. University Department/Centre	Department of Dentistry
220. The name/code of the Academic Programme	GRP321 General Pathology
221. Programmes included	Dentistry
222. Available Academic Courses	Lectures, seminars, workshops and summer trainings
223. Academic Study System/Year	Yearly
224. Number of hours (total)	30 theoretical hours and 60 practical hours
225. Preparation Date of this Description	2024-2023-.

226. Objectives of the Academic Programme

To qualify dentists capable for identifying the important causes of different general pathologies, studying diagnosis of different pathologies and ways of using different pigments to know these pathologies and their causes.

227. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)
A.1 - Ability to differentiate among different pathologies
A.2 - How to use pigment
A.3 - Learning on tissue slicing
A.4 -
A.5 -
A.6 -

B. Programme Skill Objectives
B.1 - Ability to differentiate among different pathologies
B.2 - How to use pigments
B.3 - Learning on tissue slicing
B.4 -

Methods of Teaching and Learning

Theoretical Lessons
Scientific discussions and seminars using screens (LCD)
Use of methods of clarification such as radiographs and videos

Assessment Methods

Weekly exams
Half-year and end-of-year exams
Assessment of simians prepared by students
Assessment of the practical product

C. Thinking Skills
C.1 - Identify pathologies and diagnose them microscopically using electron microscopy, dyes and tissue slicing.
C.2 -
C.3 -
C.4 -

Methods of Teaching and Learning

Theoretical lessons
Scientific discussions and seminars
Use of screens (LCD) on demonstration methods such as radiographs and videos

Assessment Methods

Weekly exams
Half-year and end-of-year exams
Assessment of simians prepared by the students
Assessment of the practical product

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

D.1 – Lecturers bring some tissue and dyes to rare diseases that cannot be found within the institution and are explained and presented to the students for keeping up with the scientific Academic Course in the field of public pathologies.

D.2 -

D.3 -

D.4 -

228. Academic Course Structure					
Week	**Theoretical content**	**Hours**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	Introduction	1	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
2	Cell damage	3	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
4	Inflammation	4	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
5	Healing and repair	2	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
6	Deposits and pigmentation	1	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
7	Infections	5	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
8	Immunopathology fogy	4	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
9	Disorders of cell growth and development	3	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
10	Neoplasia	5	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
11	Genetics	4	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
12	Disturbances in body fluids and blood flow	4	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
13	Diseases of the Cardiovascular system	4	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars

Week	Theoretical content	Hours	Academic Course name	Teaching Method	Assessment Method
14	Diseases of respiratory system	2	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
15	Haematological diseases	6	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
16	Diseases of G.I.T	4	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
17	Diseases of liver, pancreas and gall bladder	3	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
18	Bone diseases	2	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
19	Joints, Muscle and C.T. diseases	3	Pathology	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams and seminars
60		Total			

229. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Robin's Basic Pathology
Special requirements (including, for example, workshops, seminars, software and websites)	
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

No.	Title of the sessions	Hours
1	Introduction to general pathology	2
2	Power points slides	2
3	Power points and histopathological slides demonstrating fatty changes in liver and cloudy swelling in kidney	2
4	Necrosis Power points and histopathological slides of coagulative in heart muscles and gaseous ne-crosis in lung	2

No.	Title of the sessions	Hours
5	Lung Power points and histopathological slides of anthracnosis of and hemosiderosis in liver	2
6	Histopathological slides of amyloidosis in Power points and stain E. and congo-red & kidney, H	2
7	Histopathological slides of acute appendicitis Power points and (and lobar pneumonia (lung (appendix), acute osteomyelitis	2
8	Histopathological slides of chronic Power points and osteomyelitis in bone cholecystitis in gall bladder and chronic	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	2
11	Power points and histopathological slides of Sarcoidosis	2
12	Power points slides of CVC in lung and liver	2
13	Power points slides of blood vessels thrombosis	2
14	Power points and histopathological slides of lipoma, S.C papilloma of skin	2
15	Power points and histopathological slides of ostomy of the Bone	2
16	Power points and histopathological slides of S.C. carcinoma and adeno carcinoma of the colon	2
17	Power points and histopathological slides of thyrotoxicosis of thyroid and hashimotisis thyroiditis in thyroid	2
18	Data show slides	2
19	Data show slides	2
20	Power points and histopathological slides of myocardial infarction of heart and atherosclerosis in blood vessels	2
21	Power points and histopathological slides of chronic gastritis in stomach and peptic ulcer	2
22	Power points and histopathological slides of liver cirrhosis and hepatocellular carcinoma	2
23	Power points and histopathological slides of emphysema in lung and chronic bronchitis in bronchus	2
24	Data show	2
25	Data show	2
26	Data show	2
27	Data show	2
28	Data show	2
29	Power points slides	2
30	Power points slides	2
Total		60

230. Educational Institution	Kut University College
231. University Department/Centre	Department of Dentistry
232. The name/code of the Academic Programme	Oral Surgery/OS322
233. Programmes included	Dentistry
234. Available Academic Courses	Theoretical and practical lectures
235. Academic Study System /Year	Two semesters/Third stage
236. Number of hours (total)	30 theoretical hours and 60 practical hours
237. Preparation Date of this Description	2024-2023-.

238. Objectives of the Academic Programme:

Students are prepared at a high level of scientific knowledge in relation to oral surgery and get familiarised with surgical instruments for their work in surgery in addition to gaining knowledge of the types of local anaesthesia, methods, problems and complications associated with it.

239. Programme outputs and teaching, learning and assessment methods

A. **Cognitive Objectives (Knowledge and Understanding)**

A.1 - Acquiring basic knowledge of oral surgery.
A.2 - Identifying surgical instruments used in oral surgery and surgical techniques
A.3 – Learning basic knowledge of local anaesthesia and its methods.
A.4 -
A.5 -
A.6 -

B. Programme Skill Objectives

B.1 – Knowledge of the basics of oral diagnosis and surgical instruments
B.2 - Dental and oral surgery techniques
B.3 - Learn different local anaesthetics
B.4 -

Methods of Teaching and Learning

Lessons using power point (data show) and practical laboratories.

Assessment Methods

Quarterly, half -year, final, short exams and practical exams

C. Thinking Skills

C.1 -Dealing with oral surgery and local anaesthesia
C.2 -
C.3 -
C.4 -

Methods of Teaching and Learning

Theoretical lessons and practical laboratory

Assessment Methods

Theoretical and practical examinations

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

D.1 - Student preparation in practice related to oral surgery and local anaesthesia.
D.2 -
D.3 -
D.4 -

240. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	2	Diagnosis in oral surgery (exodontia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	Extraction of teeth (exodontia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	Contra indications of extraction (exodontia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	1	General arrangement for extraction (exodontia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	2	Dental forceps (exodontia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	2	Elevators (exodontia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	2	Techniques of forceps extraction and post-operative instructions (exodontia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	3	Complications of teeth extractions (exodontia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	3	Basic surgical instruments (exodontia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
20	1	Introduction to local anaesthesia (local anaesthesia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	2	Pharmacology of local anaesthesia (local anaesthesia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	1	Surgical anatomy in local anaesthesia (local anaesthesia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	1	Instruments of local anaesthesia (local anaesthesia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	3	Techniques of local anaesthesia (local anaesthesia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	3	Complications of local anaesthesia (local anaesthesia)	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

241. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Contemporary oral and maxillofacial surgery 5th edition 2008. Extraction of teeth. Handbook of Local anaesthesia 6th edition 2011.
Special requirements (including, for example, workshops, seminars, software and websites)	Holding seminars and writing reports under the supervision of the lecturers of subjects
Social services (for example, guest lesson and professional training, and practical Academic Courses)	The study includes practical training in surgical instruments and tools used for local anaesthesia.

No.	**Laboratory sessions &*Clinical requirements***	**Hours**
1	Introduction	2
2	What is oral and maxillofacial surgery?	2
3	History and diagnosis (1).	2
4	History and diagnosis (2).	2
5	Case sheet and patient (1)	2
6	Case sheet and patient (2)	2
7	Examination.	2
8	Surgical instruments part (1).	2
9	Surgical instruments part (2).	2
10	Surgical instruments part (3).	2
11	Examination	2
12	General arrangement for extraction.	2
13	Position of patient, operator, the use of chair (in the clinic)	2
14	Examination.	2
15	Local anaesthesia (introduction)	2
16	Dental forceps (part 1).	2
17	Dental forceps (part 2).	2
18	Dental forceps (part 3).	2
19	Dental elevator (part 1).	2
20	Dental elevator (part 2).	2
21	Dental elevator (part 3).	2
22	Examination	2
23	Local anaesthesia (surgical), (anatomy)	2
24	Local anaesthesia equipment.	2
25	Local anaesthesia techniques (infiltration).	2
26	Local anaesthesia techniques (block).	2
27	Local anaesthesia techniques (discussion).	2
28	Complication of local anaesthesia	2
29	Complication of extraction.	2
30	Examination	2
Total		60

242. Educational Institution	Kut University College
243. University Department/Centre	Department of Dentistry
244. The name/code of the Academic Programme	PRS310
245. Programmes included	Prosthodontics
246. Available Academic Courses	Student attendance at lectures and laboratories
247. Academic Study System /Year	Two semesters/ stage 3
248. Number of hours (total)	30 theoretical hours and 60 practical hours
249. Preparation Date of this Description	2024-2023-.
250. Objectives of the Academic Programme	
Teaching basic principles related to the manufacture of partial dentures, both acrylic and chrome cobalt	

251. Programme outputs and teaching, learning and assessment methods

A. **Cognitive Objectives (Knowledge and Understanding)**

A.1 - Providing the students with the necessary information to make the students able to master all the steps of the micro dentures-making, especially, chrome cobalt related to the laboratory side

B. Programme Skill Objectives

B1. describing the tools used to prepare enough materials

B2. teaching students how to use and follow them up while working

Methods of Teaching and Learning

LCD lecture, data show, digital cameras, live explanation, direct student interaction with all types of materials listed in the curriculum presented to the student, after they are divided into groups on the number of days of the week and all the steps explain in details.

In addition to bringing in models of denture of previous patients or denture specially prepared for illustrations

Assessment Methods
Practical assessment of each step of the denture
Weekly and monthly examinations, annual and annual text

C. Thinking Skills

C.1 - Ability to solve problems
C.2 – Ability to handle and adapt dental materials with complete skill to facilitate and master the laboratory of denture making and to respond to student questions
C.3 - Providing live and detailed explanation, and direct interaction
C.4 - In denture making lessons, students will face difficulties due to their interaction with the student dental materials that stimulate student creativity and talent in the denture making
C.5 - Providing work atmosphere and group instruction, which make the students in a sound psychological environment, which alert him to the potential mistakes they, or their mates may make.

Assessment Methods

Theoretical examinations
Assessment of each step of the denture's work and assessment of the treatment plans as well as the designs the students have developed for various pathological conditions.

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

D.1 -Encouraging and motivating students to participate in conferences both inside and outside the faculty and in external trainings.

252. Academic Course structure (Theoretical side)					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Introduction to Removable Partial Dentures	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
2	1	Terminology & Definitions	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
3	1	Classification of Partially Edentulous Arches	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
4	1	Surveying	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
5	1	Component parts of Removable Partial Dentures	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
6	1	Maxillary Major Connector	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
7	1	Mandibular Major Connector	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
8	1	Minor Connector	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
9	1	Rest and rest seat	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
10	1	Direct Retainers,	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
11	1	Extra Coronal Direct Retainers	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
12	1	Extra Coronal Direct Retainers (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
13	1	Internal Attachments	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
14	1	Indirect retainers	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
15	1	Indirect retainers (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
16	1	Block out & Relief	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
17	1	Duplication & Refractory Cast Construction	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
18	1	Wax Pattern	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
19	1	Casting, & Finishing	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
20	1	Denture Bases in Removable Partial Dentures	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
21	1	Stress Breaker	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
22	1	Biomechanics of Removable Partial Dentures	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
23	1	Biomechanics of Removable Partial Dentures (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
24	1	Principles of Removable Partial Denture Design	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
25	1	Phases of Removable Partial Denture Treatment	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
26	1	Acrylic Removable Partial Dentures	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
27	1	Acrylic Removable Partial Dentures (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
28	1	Jaw Relation in Removable Partial Dentures	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
29	1	Repairs and Additions to Removable Partial Dentures	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
30	1	Special Impression Techniques for Removable Partial Denture (altered cast techniques…etc.)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours		Academic Course name	Teaching Method	Assessment method
1	4	Introduction to Removable Partial Dentures	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
2	4	Kennedy Classification	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
3	4	Cast Trimming	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
4	4	Surveying	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
5	4	Surveying	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
6	4	Wire Bending	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
7	4	Wire Bending	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
8	4	Acrylic Removable Partial Denture Design	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
9	4	Acrylic Removable Partial Denture Laboratory Procedures	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
10	4	Acrylic Removable Partial Denture Laboratory Procedures	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams

Week	Hours		Academic Course name	Teaching Method	Assessment method
11	4	Flexible Partial Denture Design	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
12	4	Flexible Partial Denture Laboratory Procedures	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
13	4	Flexible Partial Denture Laboratory Procedures	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
14	4	Flexible Partial Denture Laboratory Procedures	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
15	4	Principles of 2D Design for the Removable Partial Dentures	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
16	4	Principles of 2D Design for the Removable Partial Dentures	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
17	4	Principles of Drawing 2D Design for the Removable Partial Dentures	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
18	4	2D Design for Mandibular & Maxillary Arches	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
19	4	2D Design for Mandibular & Maxillary Arches	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams

Week	Hours		Academic Course name	Teaching Method	Assessment method
20	4	2D Design for Mandibular & Maxillary Arches	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
21	4	Drawing Removable Partial Denture 3D Design & CAD/CAM	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
22	4	Drawing Removable Partial Denture 3D Design & CAD/CAM	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
23	4	Types of Rests	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
24	4	Rest Seat Preparation	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
25	4	Block Out and Relief	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
26	4	Block Out and Relief	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
27	4	Duplication of the Master Cast	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
28	4	Wax Pattern for the Removable Partial Denture Framework	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams
29	4	Wax Pattern for the Removable Partial Denture Framework	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams

Week	Hours		Academic Course name	Teaching Method	Assessment method
30	4	Framework Fabrication	Prosthodontics	Practical laboratories	Quarterly, half-year and final practical and oral exams

253. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	**McCracken textbooks Laboratory procedures for RPD Dental technology**
Special requirements (including, for example, workshops, seminars, software and websites)	As mentioned above, laboratories and practice step-by-step, where all the practical steps are explained by lecturers and then are assessed for each step.
Social services (for example, guest lesson and professional training, and practical Academic Courses)	Participation in faculty conferences and lectures by Dental Industry Association and participating in the making illustrative images and flexes.

254. Educational Institution	Kut University College
254. University Department/Centre	Department of Dentistry
255. The name/code of the Academic Programme	General Medicine/ GMD424
256. Programmes included	Dentistry
257. Available Academic Courses	Theoretical and practical lectures
258. Academic Study System /Year	Two semesters/ Fourth Stage
259. Number of hours (total)	30 theoretical hours and 75 practical hours
260. Preparation Date of this Description	2024-2023-.

261. Objectives of the Academic Programme:

to prepare students at a high level of scientific knowledge in relation to general medicine and learning of the treatment of diseases and their diagnosis, treatment and their relationship to their competence as dentists

263. Programme outputs and teaching, learning and assessment methods

A. <u>Cognitive Objectives (Knowledge and Understanding)</u>

A.1 - Gaining knowledge of human diseases
A.2 - Ways to diagnosing diseases and treating them
A.3 - The relationship of diseases to their competence as a dentist.
A.4 -
A.5 -
A.6 -

B. <u>Programme Skill Objectives</u>

B.1 - Special diagnostic methods
B.2 - Knowledge of laboratory types of pathology.
B.3 -
B.4 -

Methods of Teaching and Learning

Lessons using Power Point (data show) and clinical tours in the Department of Internal Medicine

Assessment Methods

Quarterly, half-year, final and short exams.

C. Thinking Skills

C.1 - Solve problems in dealing with pathology.
C.2 -
C.3 -
C.4 -

Methods of Teaching and Learning

Theoretical lectures and clinical tours

Assessment Methods

Quiz quarterly, half-year and final exams

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

D.1 - Student preparation in practice in dealing with general medicine and its relationship with their work as a dentist.
D.2 -
D.3 -
D.4 -

264. Academic Course Structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Systemic hypertension	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	2	Ischemic heart disease	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	1	Hematemesis	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	1	Rheumatic fever	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	2	Infective endocarditis	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	2	Diseases of the heart valves	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	2	Haemorrhagic diseases	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	2	Anaemias	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	1	Haemolytic anaemia	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
14	1	Haemolytic anaemia	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	1	Erythrocytosis and polycythaemia	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	1	Leukaemia	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	1	Esophagitis	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	1	Acute abdomen	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	1	Diabetes mellitus	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
20	1	Tuberculosis	General Medicine	A theoretical lesson using Pow-er Point	Short, quarterly, half-year and final exams
21	1	Symptoms of elementary tract disease	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	1	Branchial asthma	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	2	Peptic ulcer	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	2	Jaundice	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
27	1	Diarrhoea and constipation	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	1	Upper GIT bleeding and hepatic disorders causes	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	2	Congestive heart failure	General Medicine	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

12. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	1. Davidson's principles and practice of medicine 21st edition 2010. 2. Oxford handbook of clinical medicine 8th edition 2010. 3. Dental management of medically compromised patients 7thedition 2007. 4. Medical problems in dentistry 6th edition2010.
Special requirements (including, for example, workshops, seminars, software and websites)	Students prepare reports on various subjects in the field of study under the supervision of lecturers of the subjects and holding workshops and seminars.
Social services (for example, guest lesson and professional training, and practical Academic Courses)	Clinical tours in the Department of Internal Medicine at Baghdad Dental Teaching Hospital

Clinical sessions

No.	Title of the sessions	Hours
1	History, Clinical and communication skills**.**	2.5
2	Principals of physical examination.	2.5
3	The analysis of symptoms and signs.	2.5
4	The general examination and the external features of disease.	2.5
5	Examination of the head.	2.5
6	Examination of the neck.	2.5
7	Examination of the hands.	2.5
8	Examination of the skin.	2.5

No.	Title of the sessions	Hours
9	Cardiovascular system; presenting symptoms.	2.5
10	Cardiovascular system physical examination.	2.5
11	Examination of the heart.	2.5
12	Examination of the arteries and veins.	2.5
13	Introduction to ECG	2.5
14	Acute rheumatic fever and rheumatic heart disease presenting features.	2.5
15	Infective endocarditis presenting features.	2.5
16	The cardinal symptoms of respiratory disease.	2.5
17	Physical examination of the respiratory system	2.5
18	Physical examination of the respiratory system	2.5
19	Presenting features in renal and urinary tract disease.	2.5
20	Clinical examination of kidneys and urinary tract.	2.5
21	Presenting features of thyroid disease, and clinical examination of the thyroid gland.	2.5
22	Presenting problems in adrenal gland disease and clinical examination of patients.	2.5
23	Presenting symptoms in diabetes mellitus and clinical examination of patients.	2.5
24	Physical examination of the abdomen and groins	2.5
25	Presenting features in liver disease and clinical examination	2.5
26	Presenting problems in blood disease and clinical examination	2.5
27	Presenting problems in blood disease and clinical examination	2.5
28	Use of the ophthalmoscope	2.5
29	Presenting problems in neurological disease	2.5
30	Clinical examination of the nervous system	2.5
Total		75

265. Educational Institution	Kut University College
266. University Department/Centre	Department of Dentistry
267. The name/code of the Academic Programme	General Surgery/GSR424
268. Programmes included	Dentistry
269. Available Academic Courses	Theoretical and practical lectures
270. Academic Study System/Year	Two semesters/fourth stage
271. Number of hours (total)	30 theoretical hours and 75 practical hours

272. Preparation Date of this Description	2024-2023-.

273. Objectives of the Academic Course:
To prepare students for having a high level of scientific knowledge of general surgery and on general surgical conditions and methods of diagnosis, treatment and its relationship to their specialty as a dentist.

274. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)
A.1 -Gain knowledge of general surgical conditions
A.2 -Ways to diagnose and treat them
A.3 - Relationship to their competence as a dentist

B. Programme Skill Objectives
B.1 - Special diagnostic methods
B.2 - Know the types of laboratory and radiological tests related to surgical arteries
B.3 -
B.4 -

Methods of Teaching and Learning

Lessons using Power point (Data show) and clinical tours in General Surgery Departments

Assessment Methods

Quarterly, half-year, final and short exams

C. Thinking Skills
C1 - Solving problems in dealing with general surgical cases.
C2 -
C3 -
C4 -

Methods of Teaching and Learning

Theoretical Lectures
Scientific discussions and seminars
Use of screens (LCD) use demonstration methods such as radiographs and videos

Assessment Methods

Quarterly and half-year exams, final exams and short exams

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

D.1 - Preparing the students in practice and developing the ability to identify surgical cases that interfere with their work.
D.2 –
D.3 –
D.4 –

275. Academic Course Structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Case history	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	1	Clinical examination	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	Surgical wound and infections	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	Wound healing	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	2	Haemorrhage and blood transfusion	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	2	Fracture and dislocation of bones	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	1	Head injuries	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	2	Parenteral feeding	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	2	Fluid and electrolytes balance	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
16	2	Surgical resuscitation and medical emergencies	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	2	Differential diagnosis of swelling in the neck	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
20	2	Diseases of the nose and Para nasal sinuses	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	2	Diseases of pharynx and larynx and esophagus	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	2	General anaesthesia, pain management and postoperative care	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	2	Chest trauma and diseases	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	2	Thyroid gland and goiter	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	1	Tumours, Cyst, Ulcer & fistula	General Surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

276. Infrastructure

Required bibliography:

- The basic texts
- Course books
- Other

1. Baily and Love's short practice of surgery 25th edition 2008.
2. Schwarz principles of surgery.

Special requirements (including, for example, workshops, seminars, software and websites)	**Workshops and seminars (Seminars) to discuss various subjects in general surgery**
Social services (for example, guest lesson and professional training, and practical Academic Courses)	**Clinical tours in the General Surgery Department at Baghdad Dental Teaching Hospital**

Clinical session

No.	Title of the sessions	Hours
1	History taking.	2.5
2	History taking	2.5
3	How to fill case sheet.	2.5
4	General Examination	2.5
5	Pulse rate measurement	2.5
6	Blood pressure measurement	2.5
7	Body temperature	2.5
8	Respiratory rate measurement and oximetry (oxygen saturation)	2.5
9	Head &Neck examination	2.5
10	Cranial nerve examination	2.5
11	Abdominal examination	2.5
12	Abdominal examination	2.5
13	pelvic examination.	2.5
14	pelvic examination	2.5
15	Upper limb examination	2.5
16	Lower limb examination	2.5
17	Central nervous system &Peripheral nervous system.	2.5
18	Intramuscular Intravenous injections	2.5
19	Types of fluids	2.5
20	Types of solutions	2.5
21	Examination of the cardiovascular system	2.5
22	X-Rays	2.5
23	U\S	2.5
24	MRI	2.5
25	Specific laboratory examination	2.5
26	Laboratory examination.	2.5
27	CT scan	2.5
28	Types of drains	2.5
29	Manifestation of endocrine disease	2.5
30	Manifestation of endocrine disease	2.5
Total		75

277. Educational Institution	Kut University College
278. University Department/Centre	Department of Dentistry
279. The name/code of the Academic Programme	Oral surgery/OS422
280. Programmes included	Dentistry
281. Available Academic Courses	Theoretical and practical lectures
282. Academic Study System/Year	Two semesters/fourth stage
283. Number of hours (total)	30 theoretical hours 150 practical hours
284. Preparation Date of this Description	2024-2023-.

285. Objectives of the Academic Programme:

Preparing students for having a high level of scientific knowledge in relation to oral surgery and identifying steps of care for those who patients with chronic and communicable diseases, as well as minor surgical interventions for mouth inflammation and oral, maxillofacial and dental surgery.

286. Programme outputs and teaching, learning and assessment methods

A. **Cognitive Objectives (Knowledge and Understanding)**

A.1 - Acquire basic knowledge of oral surgery.
A.2 - Age-specific measures for chronic and communicable diseases A.3 - Basic knowledge of microsurgical interventions
A.4 – Dealing with oral, maxillofacial and dental infections.
A.5 -
A.6 -

B. **Programme Skill Objectives**

B.1 - Knowledge of the basics of oral diagnosis
B.2 - Treatment of chronic and communicable diseases
B.3 - Dental extraction trainings
B.4 -

Methods of Teaching and Learning

Lessons using Power point, (data show)
Dental extraction clinics
seminars preparation by students under the supervision of their lecturers.

Assessment Methods

Quarterly, half-year, final and short exams and practical exams

C. Thinking Skills

C.1 -Dealing with oral surgery, dental extraction and complications related to them
C.2 -
C.3 -
C.4 -

Methods of Teaching and Learning

Theoretical lectures, dental extraction and seminars.

Assessment Methods

Theoretical and practical examinations

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

D.1 - Student preparation in practice related to oral surgery, local anaesthesia and dental extraction.
D.2 -
D.3 -
D.4 -

287. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Dental pain	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	3	Cardiovascular diseases	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	Bleeding disorders	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	1	Blood dyscrasias	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	1	Thyroid disease	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	1	Adrenal insufficiency	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	1	Diabetes mellitus	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	1	Pulmonary diseases	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	1	Arthritis	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
13	1	Allergy	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	1	Renal disease	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	1	Liver disease	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	1	C.N.S. disease	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	1	Pregnancy	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	1	AIDS.	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	1	Management of patient receiving chemother-apy and radiotherapy	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	2	Intra oral incisions, flaps and suturing	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	2	Principles of management of impacted teeth	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	3	Pyogenic infections of the soft tissues	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
27	2	Inflammatory disease of the bone	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	2	Complications of exodontia	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

288. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	• Contemporary oral and maxillofacial surgery 5th edition2008. • An outline of oral surgery 2000. • Dental management of medically compromised patient's 7th edition2007. • Medical problems in dentistry 6th edition 2010.
Special requirements (including, for example, workshops, seminars, software and websites)	Holding seminars (Seminars) and opting reporting under the supervision of the subjects' lecturers.
Social services (for example, guest lesson and professional training, and practical Academic Courses)	The educational programme includes vocational training in oral surgery, as well as hosting some experienced professors to give lectures for the purpose of presenting their experience in surgery and scientific research

Clinical requirement

Clinical requirement	
- Extraction of simple cases - Seminars of oral surgery	- 5 Hours/ week - 150 Hours/ Year

289. Educational Institution	Kut University College
290. University Department/Centre	Department of Dentistry
291. The name/code of the Academic Programme	Conservative Dentistry RSD419
292. Programmes included	Dental (Dentistry)
293. Available Academic Courses	100%
294. Academic Study System/Year	Two semesters/fourth stage
295. Number of hours (total)	30 theoretical hours and 150 practical hours
296. Preparation Date of this Description	2024-2023-.

297. Objectives of the Academic Programme

Student are trained on screening patients and diagnose the condition with modern diagnostic methods adopted, preparing the treatment plan, start the treatment using modern materials and methods to root canal treatment by giving theoretical lesson with working in the clinics.
Students are also trained in root canal treatment on extracted teeth to prepare them for clinical work on patients.

298. Programme outputs and teaching, learning and assessment methods

A. <u>Cognitive Objectives (Knowledge and Understanding)</u>
A.1 - Train the student on how to examine and diagnose pathological conditions
A.2 - Provide important information and treatment steps
A.3 - Give guidance and follow up on the processes of the root canal treatment.
A.4 -
A.5 -
A.6 -

B. <u>Programme Skill Objectives</u>
B.1 - Describing the tools used to prepare for root canal treatment and fillings.
B.2 - Teaching the students how to use the tools and following them up while working

<u>Methods of Teaching and Learning</u>

Data show, lecture, LCD, educational movies and transverse cameras

Assessment methods

Theoretical, practical (clinical) and quiz exams

C. Thinking Skills

C.1 - Ability to solve problems
C.2 – Ability to leadership
C.3 -
C.4 -

Methods of Teaching and Learning

Theoretical and practical lectures (stimulus and response)

Assessment Methods

Examinations

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

D.1 - Student preparation in practice related to conservative dentistry of crowns, bridges and root canal.
D.2 -
D.3 -
D.4 -

299. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry. (part 1)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	1	Objectives of endodontic treatment - Basic phases of treatment - Pulp pathologies	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	1	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry (part2)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	1	Classification of periapical diseases	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	1	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry (part 1)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	1	Access opening preparation	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	1	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry (part 2)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	1	Endodontic instruments	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	1	Dentin Bonding, Current strategies for Adhesion of Resin to Dentin. Expanded Clinical Indications for Dentin Adhesives	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
10	1	Roentgenography in endodontics and root canal preparation	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	1	Patient Evaluation, Diagnosis & Treatment Planning (part 1)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	1	The rubber dam and its applications	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	1	Patient Evaluation, Diagnosis & Treatment Planning (part2)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	1	Techniques in root canal preparation 1. Conventional technique 2. Step back technique 3. Crown down technique Errors in root canal preparation	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	1	Caries Management (Diagnosis & treatment strategies) The treatment goal in caries	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	1	Obscuration of root canals Lateral condensation	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	1	Caries Management (Diagnosis & treatment strategies) Pit & fissure lesions Lesions involving proximal surfaces. Lesions in smooth free surfaces Root caries	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
18	1	Biological consideration of enamel and dentin, its practical significant in operative dentistry	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	1	Caries Management (Diagnosis & treatment strategies) New Detection Devices. Treatment of the Lesion or Cavity: - Causal, non-invasive, or preventive treatment - Symptomatic (invasive or restorative) treatment. New technologies for caries removal & cavity preparation.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
20	1	Cervical Lesion Non-carious cervical lesions((Erosion, Abrasion, Abreaction)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	1	Restorative Dentistry and Pulpal Health	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	1	Inflammatory Conditions of the Pulp	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	1	Treatment of Deep-Seated Caries (part 1)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	1	Treatment of Deep-Seated Caries (part 2)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	1	Fluoride–Releasing Matera	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
26	1	Laser Definition. Laser apparatus. Properties of laser light. - Mechanisms of laser tissue interactions. Types of lasers in dentistry.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
27	1	Application of Laser in Restorative Dentistry.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	1	Direct tooth-coloured restorations (Composite) Direct Composite Veneers Advantages of posterior composite restorations. Disadvantages of direct posterior composite restorations.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	1	Indirect tooth-coloured restorations (Inlay and only posterior composite restorations) Advantages of indirect posterior composite restorations	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	1	Techniques of posterior composite Inlay/Only restoration system Laboratory-processed composite inlays and onlays. Ceramic veneers, inlays and onlays, clinical procedures. CAD/CAM techniques	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Clinical requirements

Operative Dentistry	Hours
The students are required to complete the following restorations: a. Amalgam Restoration Class I 6 cases, Class II 4 cases. b. Composite (tooth coloured) Restorations Class III 2, Class IV 2, and Class V 2cases These requirements are the absolute minimum needed in order to take the final examination.	2.5h/wk.
	75h/year

Clinical requirements (Preclinical Endodontic)

No.	Title of the sessions	Hours
1	Introduction	2.5
2	Block construction	2.5
3	Diagnosis	2.5
4	Quiz 1 in lab 1,2&3 +Access opening	2.5
5	Quiz 2 in lab 4 +Clinical access opening to one anterior tooth and two premolar teeth	2.5
6		2.5
7		2.5
8	Instrument	2.5
9	Equipment and materials	2.5
10	Quiz 3 clinical quiz in lab 8&9, Working length estimation demonstration.	2.5
11	Quiz 4 in lab 11 + clinical working length estimation on the same three teeth.	2.5
12		2.5
13		2.5
14		2.5
15	Rubber dam application	2.5
16	Quiz 5 clinical quiz in lab 15	2.5
17	Review	2.5
18	Root canal instrumentation.	2.5
19	Quiz 6 in lab 18 + clinical instrumentation to the same teeth	2.5
20		2.5
21		2.5
22		2.5
23		2.5
24	Root canal obscuration.	2.5
25	Quiz 7 in lab 24 +clinical obscuration to three teeth.	2.5
26		2.5
27		2.5
28	Review	2.5
29		2.5
30		2.5
Total		60

300. Infrastructure

Required bibliography: • The basic texts • Course books • Other	• Endodontics, Ingle. • Art & Science of operative dentistry. • Pathways of the pulp by Seltzer. • Handbook of Endodontics by Bunce.
Special requirements (including, for example, workshops, seminars, software and websites)	**Clinics**
Social services (for example, guest lesson and professional training, and practical Academic Courses)	**The educational programme includes vocational training in dental education, training in diagnosis and treatment, as well as hosting some experienced professors to give lectures for presentation of their experience in scientific research and treatment.**

301.Educational Institution	Kut University College
302. University Department/Centre	Department of Dentistry
303. The name/code of the Academic Programme	Oral Pathology OPT425
304. Programmes included	Dentistry
305. Available Academic Courses	Lectures, seminars, workshops and summer trainings
306. Academic Study System/Year	Two semesters/fourth stage
307. Number of hours (total)	60 theoretical hours 150/ practical hours
308. Preparation Date of this Description	2024-2023-.

309. Objectives of the Academic Programme

To qualify dentists who can identify the causes of various oral pathology, study diagnosis and methods of dental pigments to know the distinction between diseases through laboratory diagnosis.

310. Programme outputs and teaching, learning and assessment methods

A. <u>Cognitive Objectives (Knowledge and Understanding)</u> A.1
- Ability to differentiate between different mouth diseases A.2
- How to use pigment

A.3 - Learn tissue slicing
A.4 -
A.5 -
A.6 -

B. Programme Skill Objectives

B.1 – Ability to differentiate between different mouth diseases
B.2 - How to use pigments
B.3 - Learn tissue slicing
B.
B.4 -

Methods of Teaching and Learning

Theoretical Lessons
Scientific discussions and seminars
Using LCD screens
Using methods of clarification such as microscope and video

Assessment Methods

Weekly exams
Half-year and end-of-year exams

C. Thinking Skills

C.1 - Identifying diseases, micro diagnostics, dyes and tissue slicing
C.2 -
C.3 -
C.4 -

Methods of Teaching and Learning

Theoretical Lessons
Scientific discussions and seminars
Using LCD screens
Using methods of clarification such as microscope and video

Assessment Methods

Weekly exams
Half-year and end-of-year exams

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

D.1 - Lecturers will bring some tissue slices and dyes to rare diseases that cannot be found within the institution and explained and presented to students for the purpose of keeping up with the scientific Academic Course in the field of oral pathology

D.2 -

D.3 -

D.4 -

311. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Introduction	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
1	1	Principles of biopsy Techniques	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
2	2	Dental caries	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
3	2	Pulp pathology	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
4	2	Periapical pathology	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
5	2	Bone infection	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
6 7	4	Bone diseases (Genetic diseases, meta-bolic diseases; fibro-osseous lesions)	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
8 9	4	Developmental disturbances	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
11 11 12	6	Bone neoplasms	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
13	3	Cysts of the jaw	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
14	3	Odontogenic tumours	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
15 16	4	Oral mucosal lesions	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
17	2	White lesions	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
18	2	Vesicular- bulbous lesions, Vesicular-ulcerative Lesions	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
19 21	4	Oral malignancies	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
21	2	Diseases of salivary glands	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
22	2	Tumours of salivary glands	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
23	2	Red lesions	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
24 25	5	Connective tissue lesions	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
26	2	Pigmented lesions	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
27 28	3	Forensic odontology	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
29	2	T.M.J pathology	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars
30	2	Osseo integration	Oral Pathology	Lesson using Power Point	Short, quarterly, half-year exams and seminars

312. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Oral and maxillofacial pathology Neville 4th edition
Special requirements (including, for example, workshops, seminars, software and websites)	
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

Laboratory session

No.	Title of the sessions	Hours
1	show and demonstration of biopsy processing Data	3
2	Acute and chronic dental caries	3
3	Acute pulpitis, chronic pulpitis and pulp polyp	3
4	Periapical granuloma, cyst and abscess	3
No.	**Title of the sessions**	**Hours**
5	Acute and chronic osteomyelitis and sequestrum	2
6	Fibroma Paget's disease, GCG, Fibrous dysplasia and ossifying	2
7	Fibroma Paget's disease, GCG, Fibrous dysplasia and ossifying	2
8	Ostomy, osteosarcoma, chondrosarcoma, Burkitt's lymphoma, eosinophilia granuloma	2
9	Ostomy, osteosarcoma, chondrosarcoma, Burkitt's lymphoma, eosinophilia granuloma	2
10	Data show	2
11	Data show	2
12	Calcifying odontogenic cyst and, Dentigerous cyst, keratocyst cyst eruption	2
13	Ameloblastoma, adenomatoid odontogenic tumour and odontometer	2
14	Leukoplakia, Lichen planus	2
15	Data show	2
16	Data show	2
17	Data show	2
18	Data show	2
19	Pemphigus vulgaris and data show	2
20	Pemphigus vulgaris and data show	2
21	Cell Epithelial dysplasia, squamous cell papilloma, squamous carcinoma	2
22	Cell Epithelial dysplasia, squamous cell papilloma, squamous carcinoma	2
23	Fibroma, hemangioma and lymphangia	2
24	Fibroma, hemangioma, pyogenic granuloma and lymphangia	2
25	Musicale and data show	2
26	Data show	2
27	Pleomorphic adenoma and mucoepidermoid carcinoma	2
28	Pleomorphic adenoma and mucoepidermoid carcinoma	2
29	Data show	2
30	Data show	2
Total		60

313. Educational Institution	Kut University College
314. University Department/Centre	Department of Dentistry
315. The name/code of the Academic Programme	Orthodontics ORT426
316. Programmes included	Dentistry
317. Available Academic Courses	Theoretical lectures and a practical lab

318. Academic Study System/Year	Two semesters/fourth stage
319. Number of hours (total)	30 theoretical hours and 150 practical hours
320. Preparation Date of this Description	2022-2021-.
321. Objectives of the Academic Programme: Preparing students for having a high level of scientific knowledge in relation to dental assessment and identifying	
types of periodontal conditions of patients and their causes, and types of orthodontic appliances and tools.	

322. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 - Gaining knowledge of the causes of poor bite
A.2 - Ways to diagnose and treat them
A.3 - Identifying the types of orthodontic appliances
A.4 -
A.5 -
A.6 -

B. Programme Skill Objectives

B.1 - Learn how to make movable orthodontic appliances with its different parts
B.2 -
B.3 -
B.4 -

Methods of Teaching and Learning

Lectures using PowerPoint (data show)
Laboratory trainings on making movable orthodontic device

Assessment Methods

Short, quarterly, half-year and final exams

C. Thinking Skills

C.1 - Solving problems of poor bite.
C.2 -
C.3 -
C.4 -

Methods of Teaching and Learning

Theoretical lectures and practical laboratories

Assessment methods

Short, quarterly, half-year and final exams

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

D.1 –Practical preparation of students for using the movable orthodontic device.
D.2 -
D.3 -
D.4 -

323. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	2	**Introduction** Definition of orthodontics Definition of occlusion, normal occlusion, ideal occlusion and malocclusion Six keys of normal occlusion	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	2	Aims of orthodontic treatment Orthodontic definitions (overjet, overbite, cross bite, spacing, crowding, midline deviation, rotation, displacement, proclamation, retroclination, protrusion, retrusion, imbrication, overlap impaction) – including types	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	Classification of malocclusion a. Angle's classification including division and subdivisions	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	2	b. molar, canine, incisor classifications c. classification of deciduous and mixed dentitions	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	**Growth and development** Definitions of growth, development and maturity Stages of development (ovum until birth) Theories of bone growth (cartilaginous, sutural, endosteal-periosteal, matrix theories)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
6	2	Definitions of growth site, growth centre, displacement, and drift Growth curve and maximum growth spurt	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	2	Growth and development of hard tissues (cranial base, cranial vault, nasomaxillary complex, mandible) including prenatal and postnatal Growth and development of soft tissues (lip, nose, cheek and tongue) including prenatal and postnatal	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	2	Developmental anomalies Jaw rotation and adaptation	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	2	**Deciduous and permanent dentition** Stages of tooth development: Formation, calcification and root completion	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	2	Tooth eruption (stages and theories) Sequences and timing of eruption	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	2	**Development of occlusion** • new-born oral cavity (relationship of gum pads, neonatal jaw relation-ships, natal and neonatal teeth) • Deciduous dentition stage -Dental changes till 6 years of age (jawrela-tionship, attrition, primary spaces)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
12	2	• Early mixed dentition stage - eruption of first molars and incisors (occlusal relationships of primary and permanent molars, early mesial shift, ugly duckling stage, secondary spaces) • Late mixed dentition stage – eruption of canines and premolars (Leeway space and late mesial shift) • Permanent dentition–eruption second and third molars (mesial migration)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	2	**<u>Etiology of malocclusion:</u>** Genetic factors and inherited factors Classification of etiological factors a. General factors i. Skeletal (dental base and cranial base, variation of position and size of the jaws)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	2	ii. Soft tissue (muscles of face and mastication, Muscles of lip and tongue, relation to skeletal factors, abnormalities of orofacial musculature, interference with soft tissue function) iii. Tooth size and arch length relationship (Crowding and spacing) including types	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
15	2	b. Local factors: i. Extra-teeth(supernumerary) and missing teeth (hypodontia) ii. Anomalies of tooth size and shape	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	2	iii. Early loss of deciduous teeth iv. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	2	v. Abnormal eruptive behaviour (displacement, transposition) vi. Large frenum (labial and lingual), periodontal diseases	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	2	vii. Oral habits viii. Dental caries, improper dental restoration	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	2	**Tooth movement** a. Tissue changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth movement (pressure tension theory, blood flow theory, and piezoelectric theory)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
20	2	b. Biomechanics (application, type, magnitude, duration and direction) i. Force ii. Centre of resistance and rotation, moment of force and moment of couple.	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
21	2	iii. Types of tooth movement iv. Rate of tooth movement and factors affecting it	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	2	**Orthodontic appliances** a. Overview: i. passive orthodontic appliances (habit breaker, retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopaedic and myofunctional, and combination)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	2	b. Removable Orthodontic Appliance: i. Properties of various components (SS wire, acrylic) ii. Components: 1) Active components (springs, screws and elastics)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	2	2) retentive components (clasps) 3) acrylic base plate and bite planes 4) anchorage	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	2	iii. Design of removable orthodontic appliance iv. Construction of a removable orthodontic appliance	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
26	2	v. Soldering and welding vi. Post-insertion instructions and guidelines	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	2	c. <u>Fixed orthodontic appliance:</u> Types, components, advantages, limitation, biomechanics, banding vs. bonding	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	2	Use of extra-oral anchorage, temporary anchorage devices (TADs), and lingual fixed appliance	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	2	d. <u>Orthopaedic and Myofunctional appliance:</u> Types, components, advantages, limitation, mode of action e. <u>Other active appliances:</u> Combination appliances, Invisalign	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	2	f. <u>Retention and retainers</u> Retention (definition, reason, time) Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

12. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	1. Contemporary orthodontics 2. Textbook of orthodontics 3. Orthodontics; current principles and technique 4. Introduction to orthodontics
Special requirements (including, for example, workshops, seminars, software and websites)	Students prepare reports on various subjects in the field of the study under the supervision of the lecturers of the subjects and holding seminars).
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

Clinical requirements

No.	Title of the sessions	Hours
1	Seminar 1 (Introduction to orthodontics)	5
2	Seminar 2 (Types of orthodontic appliances)	5
3	Seminar 3 (Orthodontic pliers)	5
4	Seminar 4 (Stainless steel alloy properties)	5
5	Seminar 5 (Acrylic baseplate)	5
6	Seminar 6 (Principles of wire bending)	5
7	Wire bending training	5
8	Z-Spring	5
9	Recurved Z-Spring	5
10	Review	5
11	Simple Finger Spring	5
12	Modified Finger Spring	5
13	Review	5
14	Buccal Canine Retractor	5
15	Modified Buccal Canine Retractor	5
16	Review	5
17	Quarterly Exam	5
18	Adams' Clasps on Upper Right 1^{st} Molar	5
19	Adams' Clasps on Upper Left 1^{st} Molar	5
20	Adams' Clasps on Upper Right 1^{st} Premolar	5
21	Double Adams' Clasps on Upper Right 2^{nd} premolar &1^{st}molar	5
22	Review	5

No.	Title of the sessions	Hours
23	Fitted Labial Arch	5
24	Hawley Arch	5
25	Review	5
26	Robert's Retractor	5
27	Soldering and Welding	5
28	Review	5
29	Quarterly Exam	5
30	Final Exam	5
Total		150

324. Educational Institution	Kut University College
325. University Department/Centre	Department of Dentistry
326. The name/code of the Academic Programme	Pedodontics /PDS427
327. Programmes included	Dentistry
328. Available Academic Courses	Theoretical lectures
329. Academic Study System /Year	Two semesters/fourth stage
330. Number of hours (total)	30 theoretical hours
331. Preparation Date of this Description	2024-2023-.

332. Objectives of the Academic Programme

understand the theoretical and practical ways to treat all cases of children teeth and to learn about scientific methods and methods supported by means of illustration to learn how to identify the brown and permanent teeth and the problems associated with them.

333. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 - Drafting information to enable students to understand them
A.2 - Increasing knowledge regarding the diagnosis and treatment of various pedodontics dentistry in children
A.3 - Caring for mouth and teeth, and promoting awareness of the importance of maintaining the deciduous teeth until the permanent teeth are formed in children.

B. Programme Skill Objectives

B.1 - Training students in pathological conditions of teeth of children
B.2 - Giving instructions on how to deal with children conditions
B.3 – Acquiring skills to diagnose the deciduous and permanent teeth of children

Methods of Teaching and Learning

1. Data Show
2. Educational Movies
3. LCD
4. Transverse cameras

Assessment Methods

1. Attendance
2. Daily, short and quiz exams
3. Quarterly exams
4. Semester exam
5. Final Exam
6. Making questions and discussions during lectures

C. Thinking Skills

C.1 - Student ability to solve problems and have distinctive thinking
C.2 -Ability to lead student groups
C.3 -Assessing student achievements

Methods of Teaching and Learning

Following up the student thinking, expression and responsiveness methods

Assessment Methods

1. depending on the student attendance and commitment to the lectures and their interaction with the lecturers
2. taking the short exams to assess student understanding of the subject presented and explained in the lecture
3. taking planned exams as the quarterly, half and final exams.

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

D.1 -Professional preparation
D.2 - Scientific preparation
D.3 -Cultural preparation
D.4 -Employing skills gained so that the student becomes a dentist capable of treating patients

334. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Eruption of teeth, normal eruption process	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	1	Teething and difficult eruption	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	1	Eruption haematoma, sequestrum, ectopic eruption	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	1	Natal and neonatal teeth	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	1	Local factors influence eruption	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	1	Systemic factors influence eruption	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	1	Morphology of the primary teeth	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	1	Normal morphology of all primary teeth and their clinical consideration	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	1	Morphologic differences between primary and permanent Teeth	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	1	Functions of primary teeth	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	1	Dental caries. Definition and Classification	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
12	1	Etiology of dental caries	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	1	Early childhood caries,	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	1	Nursing caries, baby bottle tooth decay	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	1	Severe childhood caries	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	1	Rampant dental caries	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	1	Restorative dentistry for children	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	1	solation & maintenance of dry field and application of the rubber Dam	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	1	Morphological consideration, cavity preparation and instrumentation	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
20	1	Cavity preparation on primary teeth, restorative materials used on paediatric dentistry, Matrices& retainers	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	1	Chrome steel crowns	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	1	Atraumatic Restorative Therapy (ART)	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
23	1	Treatment of deep caries	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	1	Diagnosis aids in the selection of teeth for pulp therapy	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	1	Indirect pulp treatment	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	1	Vital pulp therapy	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	1	pulpotomy	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	1	Non vital pulp therapy technique	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	1	Reaction of pulp to various capping material	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	1	Failure after vital pulp therapy	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

335. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Dentistry for child and Adolescent RALPHE-McDonald /2011/ninth edition Textbook of paediatric dentistry Nikhil Marwa 2nd. Ed .2009 New Delhi
Special requirements (including, for example, workshops, seminars, software and websites)	
Social services (for example, guest lesson and professional training, and practical Academic Summer training Courses)	

336. Educational Institution	Kut University College
337. University Department/Centre	Department of Dentistry
338. The name/code of the Academic Programme	Periodontics / PER428
339. Programmes included	Periodontics (Dentistry)
340. Available Academic Courses	Student attendance lectures, clinics and seminars throughout the year
341. Academic Study System/Year	Two semesters/fourth stage
342. Number of hours (total)	120 practical hours and 30 theoretical hours
343. Preparation Date of this Description	2024-2023-.

344. Objectives of the Academic Programme

- The main objective of the branch is to increase the health awareness of the health of the mouth and teeth in the citizens and to treat the patients who suffer from periodontics by preparing medical staffs of students who will perform this role after they have graduated and served in health centres all over Iraq.
2. Pedagogy: By giving lectures, holding seminars and performing advanced surgical operations for the purpose of training students.
3. The therapeutic and preventive aspect: The branch currently covers all pathological cases of periodontal disease referred to the faculty as well as the preventive aspect of this subject

345. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 -Formulate information in such a way that students can understand and increase knowledge regarding diagnosis, treat and continue with various periodontal disease.

A.2 - Giving students instructions on oral and dental care for patients visiting the College of Dentistry

A.3 - Students have knowledge of all means of health education of patients to prevent, diagnose and treat periodontal diseases.

B. Programme Skill Objectives

B.1 - Training students to remove plaque from the teeth and remove discolouration from the teeth

B.2 - Giving instructions for oral health care

B.3 - Learning the preventive aspect to prevent periodontal disease and prevent the development of periodontics from getting worse.

Methods of Teaching and Learning

A.1 - Data show
A.2 - Educational Movies
A.3 - LCD
A.4 - Electronic screens
A.5 - Transverse cameras
A.6 - Smart Specs

Assessment Methods

Written and oral examinations, quiz and clinical examinations

C. Thinking Skills

C.1 - Student ability to solve problems and have distinctive thinking
C.2 - Ability to lead student groups
C.3 - Assessing student achievements

Methods of Teaching and Learning

Follow up the student thinking, expression and responsiveness methods by using all available learning methods such as show data, tutorials, electronic screens and more.

Assessment Methods

Preparation of reports, theoretical and practical examinations and grading

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

D.1 - Professional preparation
D.2 - Scientific preparation
D.3 - Cultural preparation
D.4 - Employing skills gained so that the students become dentists capable of treating patients

346. Academic Course structure					
Week	**Hours**	**Academic Course name**	**Theoretical content**	**Teaching Method**	**Assessment method**
1	1	Periodontics	Histology of the periodontium, terms & definitions frequently used in period ontology	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
2	2	Periodontics	Gingiva	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
4	2	Periodontics	Periodontal ligament	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
6	1	Periodontics	Alveolar bone	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
7	1	Periodontics	Root cementum	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
8	2	Periodontics	Etiology of periodontal disease &risk factors	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
10	2	Periodontics	Microbial dental plaque	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
12	2	Periodontics	Dental calculus &tooth stain	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
14	2	Periodontics	Pathogenesis of periodontal disease	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams

16	1	Periodontics	Classification of periodontal disease	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
17	1	Periodontics	Gingiva	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
18	1	Periodontics	Periodontal ligament	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
19	1	Periodontics	Alveolar bone	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
20	1	Periodontics	Root cementum	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
21	2	Periodontics	Etiology of periodontal disease &risk factors	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
23	1	Periodontics	Microbial dental plaque	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
24	2	Periodontics	Dental calculus &tooth stain	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
26	3	Periodontics	Pathogenesis of periodontal disease	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
29	1	Periodontics	Maintenance phase	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams
30	1	Periodontics	Drugs in periodontology	A theoretical lesson using Power Point	Practical, short, quarterly, half-year and final exams

347. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Book for Linda 2009 and Crianza 2012
Special requirements (including, for example, workshops, seminars, software and websites)	Continuation of holding educational academic courses and seminars
Social services (for example, guest lesson and professional training, and practical Academic Courses)	Holding seminars for periodontal disease of patients on health awareness raising and prevention of periodontal disease.

Clinical requirement

Clinical requirement	**Type of treatment**
2.5h/week 75h/year	Scaling & polishing min.= 4000 points max.=7000 points

348. Educational Institution	Kut University College
349. University Department/Centre	Department of Dentistry
350. The name/code of the Academic Programme	PRS410
351. Programmes included	Prosthodontics (Dentistry)
352. Available Academic Courses	Lectures and clinics
353. Academic Course/year	Two semesters / fourth stage
354. Number of hours (total)	30 theoretical hours and 150 practical hours
355. Preparation Date of this Description	2024-2023-.

356. Objectives of the Academic Programme:
Student are trained on screening patients and diagnose the pathological condition patients through modern, currently approved diagnostic methods and then create a treatment plan, and then start treatment scientifically and use modern materials and methods in the micro denture making by giving theoretical lessons with practice in clinics.

357. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 - Training the student on how to examine and diagnose pathological conditions.
A.2 - Providing important information and treatment steps.
A.3 - Providing guidance and follow up on the process of the partial denture making.

B. Programme Skill Objectives

B.1. - Describe the tools used to treat patients in need of partial dentures
B.2. - Practical practice of steps to treat patients in need of partial dentures
B.3 - Following up students during their work

Methods of Teaching and Learning

Intensive practical training within the Dental Teaching Hospital
LCD lessons, data show, Smart interactive boards, illustrative films and discs.

Assessment Methods

Theoretical and practical exams (clinical.)
Each student is asked to do a certain number of cases of a flexible or acrylic partial denture and a wide range of cases, including easy, intermediate and difficult cases.
Case Sheet

C. Thinking Skills

C.1. - Problems -solve

C.2.- Capability of leadership

C.3 - Create the spirit of scientific competition between students by direct and indirect questions relating to various cases of dentistry

C.4 - Encourage student to self-development through self-esteem and ongoing training

Teaching and learning methods

Theoretical lectures and practical training.

Assessment Methods

The theoretical and practical examinations, also, the requirements of treatment, which are the number of cases to be treated on a correct, professional and complete basis, are counted to be part of the requirements of the annual work, besides the graduation project.

D. General and gained skills (other skills related to employability and personal development.

D.1 - Student motivation for participation in training Academic Courses and conferences held within and outside the faculty, at the syndicate and at the Iraqi Orthodontic Society.

358. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Osteology	Prosthodontics	1. A theoretical lectures using Power Point	short, quarterly, half-year and final exams
2	1	Myology			For practical assessment, it includes practical examinations
3	1	Diagnosis and treatment plan for RPD			Therapeutic cases
4	1	To be continued Diagnosis and treatment			
5	1	Mouth preparation and abutment tooth prepara-tion			The working hours included four hours of time in the clinic weekly and the student are asked for several treatment cases so that they can enter the final exam unless they have completed it
5	1	To be continued			
7	1	Impression materials and techniques for RPD			
8	1	To be continued			
9	1	Support in FEE RPD			
11	1	techniques altered cast and metal check			
11	1	Occlusion in rpd			
12	1	Jaw relation in rpd			
13	1	Prep prosthetic surgery			
14	1	To be continued			
15	1	Diagnosis and treatment plane CD		Use large screens and smart black boards	
16	1	To be continued			
17	1	Impression in CD		4casesFEE,2	

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
18	1	To be continued	Prosthodontics	bounded& repair& immediate RPD denture	
19	1	TMJ and mandibular movement		One Cr/Co RPD	
20	1	Jaw relation-vertical			
21	1	To be continued			
22	1	Jaw relation- horizontal			
23	1	To be continued			
24	1	Try in stage in CD			
25	1	To be continued			
26	1	Insertion of CD			
27	1	Adjustments of CD			
28	1	relining and rebasing in RPD			

Clinical requirements

No.	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.

Infrastructure	
Required bibliography: • The basic texts • Course books • Other	1. Prosthodontic treatment for edentulous Patient 2. McCracken removable partial denture 3. Textbook, atlas, besides to book for RPD and CD with paper from internet
Special requirements (including, for example, workshops, seminars, software and websites)	clinics at Dental Teaching Hospital of the College of Dentistry
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

359. Educational Institution	Kut University College
360. University Department/Centre	Department of Dentistry
361. The name/code of the Academic Programme	RSD519
362. Programmes included	Conservative Dentistry (Dentistry)
363. Available Academic Courses	Lectures and clinics
364. Academic Study System/Year	Two semesters/ stage 5
365. Number of hours (total)	30 theoretical hours and 150 practical hours
366. Preparation Date of this Description	2024-2023-.
367. Objectives of the Academic Programme	
Student training on how to screen patients and diagnose the condition with modern diagnostic methods adopted, prepare the treatment plan, start the scientific treatment of the disease and use modern materials and methods to treat root canals, crowns and bridges by giving theoretical lectures with time in the clinics.	

368. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 - Training the student on how to examine and diagnose pathological conditions
A.2 - Providing important information for treatment steps
A.3 - Giving guidance and following up on the processes of the root canal.
A.4 - Providing guidance and following up working on crowns and bridging operations.
A.5
A.6

B. Programme Skill Objectives

B.1 - Describe the tools used to prepare for root canal treatment.
B.2 - Describe the tools used to prepare teeth for crowns and bridges
B.3 - Teach the student how to use tools and follow them up while working
B.4

Methods of Teaching and Learning

Data show, lessons, LCD, educational movies and transverse cameras

Assessment Methods

Theoretical, practical (clinical) and quiz exams

C. Thinking Skills

C.1 - Solve problems
C.2 - Capable of leadership
C.3 -
C.4 -

Methods of Teaching and Learning

Theoretical and practical lessons (stimulus and response)

Assessment Methods

Examinations

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

D.1 - Student preparation in practice related to conservative dentistry of crowns, bridges and root canal.
D.2 -
D.3 -
D.4 -

369. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Endodontic diagnosis	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	1	Pain control in endo.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	1	Endodontic radiography	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	1	Intracanal instruments (1)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	1	Intracanal instruments (2)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	1	Preparation of RCS	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	1	Microbiology	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	1	Introduction and Definition of Fixed Bridges and Comparison with Partial Denture.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
9	1	Clinical consideration For Bridge Construc-tion	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	1	RC filling materials	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	1	Obturation of RCS (1)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	1	Obturation of RCS (2)	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	1	Endo. Emergency treatment	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	1	Endo-perio relations	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	1	Restoration of endo. treated teeth	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	1	Tooth discoloration & bleaching	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	1	Advantages and Disadvantages of Fixed	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
18	1	Patient Selection and Examination	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	1	Types of Retainer	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
20	1	Gingival Displacement.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	1	Impression Materials and Procedure.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	1	Types of Bridge.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	1	Tooth discoloration & bleaching	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	1	Bite Registration and Articulation	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	1	Temporary Restoration	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	1	Temporary Bridges	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	1	Pontic And Pontic Design	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
28	1	Porcelain Material.	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	1	Try In and Shade Selection	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	1	Failure in Crown & Bridge	Conservative Dentistry	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Clinical requirements

370. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	• Endodontics, Ingle, Pathways of the pulp, Weine • Contemporary Fixed Prosthodontic • Fundamental Consideration in Fixed Prosthodontics. • Theoretical and clinical training in using different materi-als and techniques infixed prosthodontics • Fixed and Removable Prosthodontics
Special requirements (including, for example, work-shops, seminars, software and websites)	Clinics, (seminars), workshops, reporting and under the supervi-sion of the professors of the subject
Social services (for example, guest lesson and pro-fessional training, and practical Academic Courses)	The educational programme includes vocational training in Dental treatment and diagnostic training In addition to hosting some experienced professors to give lectures for the purpose of presenting their experience in the field of treat-ment and research

Minimum Requirement	Hours
The students are required to complete the following restorations: - a. Amalgam Restoration Class I 2cases, Class II 5 cases. Class II Compound restoration 2. b. Composite (tooth coloured) Restorations Class III 4, Class IV 2, and Class V 2 cases c. Crown 1unit. d. Endodontics 1case. These requirements are the absolute minimum needed in order to take the final examination.	5h/wk.
Total	**150 h/year**

371. Educational Institution	Kut University College
372. University Department/Centre	Department of Dentistry
373. The name/code of the Academic Course	Oral Medicine OMD529
374. Programmes included	Dentistry
375. Available Academic Courses	Lectures, seminars, workshops and summer trainings
376. Academic Course/year	Two semesters/ fifth stage
377. Number of hours (total)	30 theoretical hours and 75 practical hours
378. **Preparation Date of this Description**	2024-2023-.
379. **Objectives of the Academic Course**: To qualify dentists who can identify the causes of various oral pathologies and study their diagnosis and treatment methods.	

380. Programme outputs and teaching, learning and assessment methods

A. <u>Cognitive Objectives (Knowledge and Understanding)</u>

A.1 - The ability to distinguish between different diseases that infect the mouth's soles
A.2 - Ways to treat mouth disease
A.3 – Diagnosing and treating temporomandibular joint
A.4
A.5

B. Programme Skill Objectives

B.1 - The ability to distinguish between various oral pathologies
B.2 - How to use pigments
B.3 - Learn tissue slicing
B.
B.4 -

Methods of Teaching and Learning

Theoretical Lessons
Scientific discussions and seminars
Use LCD monitors
Use illustrating methods such as video

Assessment Methods

Weekly exams
Half-year and end-of-year exams
Seminars are presented by students

C. Thinking Skills

C.1 - Identify and diagnose diseases.
C.2 -
C.3 -
C.4 -

Methods of Teaching and Learning

Theoretical Lessons

Scientific discussions and seminars
Use LCD monitors
Use illustrating methods such as video

Assessment Methods

Weekly exams
Half-year and end-of-year exams
Seminars are presented by students

D. <u>General and gained skills (other skills related to employability and personal development).</u>

D.1 – Lecturer brings some tissue slices and dyes to rare diseases that cannot be found within the institution and explained to students for the purpose of keeping up with the scientific Academic Course in the field of oral diseases

D.2 -

D.3 -

D.4 -

381. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1 2 3 4	**2** **2**	The principles of oral diagnosis Clinical examinations	Oral medicine	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
5 6	**2**	Laboratory investigations in dentistry	Oral medicine	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
7 8 9 11	**2** **2**	Facial pain Neuromuscular disorder	Oral medicine	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
11 12	**2**	T.M.J	Oral medicine	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
13 14	**2**	Vesiculobullous lesions	Oral medicine	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
15 16	**2**	White &red lesions	Oral medicine	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
17 18	**2**	Oral cancer	Oral medicine	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
19 21	**2**	Pigmented oral lesions	Oral medicine	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
21 22	**2**	Oral ulceration	Oral medicine	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
23 24	**2**	BMS	Oral medicine	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
25 26	**2**	Salivary gland diseases	Oral medicine	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars
27 28	**2**	Autoimmune diseases	Oral medicine	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
29 31	**2**	Oral manifestation of allergic reaction	Oral medicine	Lesson using Power Point	Short, quarterly, half-year and final exams and seminars

382. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Burket's Oral Medicine 11th Edition
Special requirements (including, for example, work-shops, seminars, software and websites)	
Social services (for example, guest lesson and pro-fessional training, and practical Academic Courses)	

Clinical requirements

No.	Title of the sessions	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	Anaemia	2.5
7	Anaemia	2.5
8	Leukaemia	2.5
9	Leukaemia	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

No.	Title of the sessions	Hours
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	Neuromuscular disorders of the face.	2.5
28	Neuromuscular 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

383. Educational Institution	Kut University College
384. University Department/Centre	Department of Dentistry
385. The name/code of the Academic Programme	Oral Surgery/OS522
386. Programme included	Dentistry
387. Available Academic Courses	Theoretical and practical lectures
388. Academic Study System/Year	Two semesters/ fifth stage
389. Number of hours (total)	30 theoretical hours and 150 practical hours
390. Preparation Date of this Description	2024-2023-.

391. Objectives of the Academic Programme

Preparing students for a high level of scientific knowledge in relation to the principles of Oral, Maxillofacial and Dental Surgery, especially benign and malignant tumours, orthopaedic surgery, facial injuries, maxillofacial and dental implants.

392. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 - Acquiring basic knowledge of the principles of Oral, Maxillofacial and Dental Surgery.
A.2 - Gaining basic knowledge of dental implantability.
A.3 -
A.4 -
A.5 -
A.6 -

B. Special skills

B.1 - Dental extraction trainings
B.2 - Minor dental surgery trainings
B.3 - Surgical diagnosis trainings
B.4 - Introduce students to the principles of dental implantation and the use of lasers in oral surgery

Methods of Teaching and Learning

Lessons using Power Point (Data show)
Dental and Micro-Operations Clinics and Surgeon Diagnosis
Seminars preparation by students under the supervision of their lecturers

Assessment Methods

Quarterly, half-year, final and short exams and practical exams

C. Thinking Skills

C.1 - Dealing with oral surgery, dental extractions and complications related to them
C.2 - Developing student researches aspects
C.3
C.4

Methods of Teaching and Learning

Theoretical lessons, dental extraction clinics, minor operations and surgical diagnosis

Assessment methods

Theoretical, practical exams and seminars

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

D.1 - Student preparation in practice in relation to oral surgery, local anaesthesia, tooth extraction and diagnosis of oral, maxillofacial and dental diseases and dental implants.

D.2 -

D.3 -

D.4 -

393. Academic Course structure

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
1	1	Endodontic surgery	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	1	Orofacial pain	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	2	Benign cystic lesions	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	2	Preprosthetic surgery	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	1	Salivary gland diseases	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	1	Diseases of TMJ	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	4	Facial injuries	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	2	Premalignant conditions	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	1	Oral cancer	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
16	1	Biopsy in oral surgery	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	1	Odontogenic tumours	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	1	Non- odontogenic tumours	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	1	Fibro-osseous lesions	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	1	Diagnostic imaging	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	2	Surgical aids to orthodontics	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	2	Orthognathic surgery	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	2	Cleft lip & palate	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	1	LASER &Cryosurgery	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	1	Management of foreign bodies	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	2	Reconstructive surgery	Oral surgery	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

394. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	1. Contemporary oral and maxillofacial surgery 5th edition 2008. 2. An outline of oral surgery 2000. 3. Rowe and William's maxillofacial injuries 1994. 4. Maxillofacial Surgery 2004. 5. Contemporary implant dentistry 3rd edition2008.
Special requirements (including, for example, workshops, seminars, software and websites)	Holding seminars (seminars) and workshops and preparing reports under the supervision of lecturers of the subjects
Social services (for example, guest lesson and professional training, and practical Academic Courses)	The educational programme includes vocational training in oral surgery and trainings in surgical diagnosis, and dental implantations as well as hosting some experienced professors to give lectures for the purpose of presenting their experience in surgery and scientific research.

Clinical requirement	Hours
- Extraction of simple cases - Surgical operations - Seminars of oral surgery	5 Hours/ week 150 Hours/ Year

395. Educational Institution	Kut University College
396. University Department/Centre	Department of Dentistry
397. The name/code of the Academic Programme	Pedodontics/PDS530
398. Programmes included	Dentistry
399. Available Academic Courses	Theoretical lectures
400. Academic Study System/Year	Two semesters/fifth stage
401. Number of hours (total)	30 theoretical hours and 75 practical hours
402. **Preparation Date of this Description**	2024-2023-.

403. Objectives of the Academic Programme

understand the theoretical and practical ways to treat all cases of children teeth and to learn about scientific methods and methods supported by means of illustration to learn how to identify the brown and permanent teeth and the problems associated with them.

404. Programme outputs and teaching, learning and assessment methods

A. <u>Cognitive Objectives (Knowledge and Understanding)</u>

A.1 - Drafting information to enable students to understand them.

A.2 - Increasing knowledge regarding the diagnosis and treatment of various pedodontics dentistry in children

A.3 - Caring for mouth and teeth and promoting awareness of the importance of maintaining the deciduous teeth until the permanent teeth are formed in children.

B. Programme Skill Objectives

B.1 - Training students in pathological conditions of teeth of children
B.2 - Giving instructions on how to deal with children conditions
B.3 – Acquiring skills to diagnose the deciduous and permanent teeth of children

Methods of Teaching and Learning

1. Data Show
2. Educational Movies
3. LCD
4. Transverse cameras

Assessment Methods

1. Attendance
2. Daily, short and quiz exams
3. Quarterly exams
4. Half-year exams
5. Final exams
6. Making questions and discussions during lectures.

C. Thinking Skills

C.1 - Student ability to solve problems and have distinctive thinking
C.2 -Ability to lead student groups
C.3 -Assessing student achievements

Methods of Teaching and Learning

Following up the student thinking, expression and responsiveness methods

Assessment Methods

1. Depending on the student attendance and commitment to the lectures and their interaction with the lecturers
2. Taking short exams to assess student understanding of the material presented and explained in the lecture
3. Taking planned exams as the quarterly, half and final exams.

D. <u>General and gained skills (other skills related to employability and personal development).</u>

D.1 - Professional preparation

D.2 - Scientific preparation

D.3 - Cultural preparation

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

405. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Eruption of teeth, normal eruption process	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	1	Teething and difficult eruption	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	1	Eruption haematoma, sequestrum, ectopic eruption	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	1	Natal and neonatal teeth	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	1	Local factors influence eruption	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	1	Systemic factors influence eruption	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	1	Morphology of the primary teeth	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	1	Normal morphology of all primary teeth and their clinical consideration	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	1	Morphologic differences between primary and permanent teeth	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	1	Functions of primary teeth	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	1	Dental caries. Definition and Classification	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
12	1	Etiology of dental caries	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	1	Early childhood caries,	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	1	Nursing caries, baby bottle tooth decay	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	1	Severe childhood caries	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	1	Rampant dental caries	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	1	Restorative dentistry for children	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	1	Solation & maintenance of dry field and application of the rubber Dam	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	1	Morphological consideration, cavity preparation and instrumentation	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
20	1	Cavity preparation on primary teeth, restorative materials used on paediatric dentistry, matrices & retainers	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	1	Chrome steel crowns	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	1	Atrumatic Restorative Therapy (ART)	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
23	1	Treatment of deep caries	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	1	Diagnosis aids in the selection of teeth for pulp therapy	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	1	Indirect pulp treatment	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	1	Vital pulp therapy	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	1	pulpotomy	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	1	Non vital pulp therapy technique	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	1	Reaction of pulp to various capping material	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	1	Failure after vital pulp therapy	Pedodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

No.	Clinical requirements
1	Prophylaxis/ Prophylaxis with fluoride
2	Extraction
3	Restoration (cl I, cl II, l III, cl IV, cl V, full coverage composite)
4	Pulp treatment (FP, VP, RCT, DPC and IPC)
5	Others (mass excavation, C.S.C, splint, space maintainer and fissure sealant)
6	Patient motivation
Total	**37.5 hours/year**

406. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Dentistry for child and Adolescent RALPHE-McDonald /2011/ninth edition Textbook of paediatric dentistry Nikhil Marwa 2nd . Ed .2009 New Delhi
Special requirements (including, for example, workshops, seminars, software and websites)	
Social services (for example, guest lesson and professional training, and practical Courses)	Academic Summer trainings

407. Educational Institution	Kut University College
408. University Department/ Centre	Department of Dentistry
409. The name/code of the Academic Programme	Preventive Dentistry PD531
410. Programmes included	Prevention (Dentistry)
411. Available Academic Courses	Theoretical lectures and practical clinics
412. Academic Study System/Year	Yearly
413. Number of hours (total)	30 hours theoretical 75 hours practical
415. **Preparation Date of this Description**	2024-2023-.

415. Objectives of the Academic Programme

The definition of the importance of preventive dentistry and its applications to individuals and society, especially for widespread diseases such as tooth decay and leprosy, as well as for nutrition and immune factors of oral pathology.

416. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 -The formulates information in a way that students can understand and increase knowledge regarding the diagnosis and treatment of various diseases such as dental caries

A.2 -Giving guidelines for dental care and health education to prevent tooth decay and periodontal disease

A.3 - Providing special guidance and preventive programmes for oral and dental health to adults and people with special needs.

B. Programme Skill Objectives

B.1 - Training the student to treat tooth decay and remove the sediments from the teeth

B.2 - Training the student to be able to use fluoride for the apocalcius

B.3 -Giving directions of care for mouth teeth health.

Methods of Teaching and Learning

Theoretical lessons using the LDC and data show
Education Movies
Practical lessons

Assessment Methods

1. Conducting daily quiz exams
2. Written and oral exams
3. Conducting clinical tests on patients
4. A practical assessment of the (Requirement)

C. Thinking Skills

C.1 - Acquisition of the main principles of the curriculum, as required.

C.2 -Ability of students to solve problems and have a distinct thinking

Methods of Teaching and Learning

1. Following up the way student thinks, how they make expression and how quickly they respond
2. Illustrative demonstration to the clinical treatment of patients

Assessment Methods

1. Daily oral and written examinations are held
2. Daily assessment of student performance in the clinic during patient treatments.

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

D.1 - None

D.2 -

D.3 -

D.4 -

417. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Preventive dentistry (introduction)	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	1	Etiology of dental caries	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	1	Fluoride in Dentistry	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	1	Systemic fluoridation (history)	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	1	Communal water fluoridation	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	1	Fluoride supplements	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	1	Topical fluoridation	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	1	Self-applied fluoride	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	1	Professionally applied fluoride	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	1	Toxicity of fluoride	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	1	Microbiology of caries	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	1	Cariogenic potential of bact.	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
13	1	Fissure sealants	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	1	New approach in restorative dentistry	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	1	Diet and dental caries	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
Half-year Break					
16	1	Non- sugar sweeteners	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	1	Dietary counselling in dental practice	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
18	1	Nutrition and oral health	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	1	Nutrition, diet &periodontal disease	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
20	1	Saliva and dental caries	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	1	Oral immune system	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	1	Oral hygiene measures	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
23	1	Dental Caries development	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	1	Diagnosis of caries	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
25	1	Identification of high-risk group	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	1	Chemo prophylactic agents	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	1	Geriatric dentistry	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	1	Dental health of disable and medically compromised child	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	1	Health education and motivation	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	1	Uses of laser in dentistry	Prevention	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Clinical requirements

No.	Title of the sessions	
	The minimum requirements that allow the students to enter the final examination include: ✓ Oral hygiene score ✓ Dental caries scores ✓ Nutritional assessments ✓ Prophylaxis ✓ Fluoride therapy ✓ Fissure sealant ✓ Restorations for teeth (primary and permanents) include amalgam and composite fillings ✓ Extraction for teeth that indicated for extraction	
Total		37.5 hours/year

418. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	1. The prevention of oral disease by Murry JJ Nunn JH and Steele JG fourth edition, 2003 2. Primary Preventive Dentistry by Harris NO Garcia-Godoy F-Na the CN 7th Ed. (2008) 3. Essential of dental caries the disease and its management by Kidd E third edition (2005) 4. Textbook of Cariology by Fejerscov and Thylstryp 1996 5. Principles and practice of public health dentistry by Krishna M and DasarPL.2010 6. Community dentistry by Sikri V and Sikri P 2008 Textbook of preventive and social - medicine. Gupta M. and Mahajan BK.3rd edition, 2003 - Dentistry, dental practices and the - community Striffler D, Young W., and Burt B., 5th edition 1999. - The prevention of oral diseases. Murray J.J., Nunn G. H. and Steele J. G. 4thedition, 2003. -
Special requirements (including, for example, work-shops, seminars, software and websites)	Clinics
Social services (for example, guest lesson and pro-fessional training, and practical Academic Courses)	

419. Educational Institution	Kut University College
420. University Department/Centre	Department of Dentistry
421. The name/code of the Academic Programme	Prosthodontics /PRS510
422. Programmes included	Prosthodontics (Dentistry)
423. Available Academic Courses	Lectures and clinics
424. Academic Study System/Year	Two semesters/fifth stage
425. Number of hours (total)	30 theoretical hours and 150 practical hours
426. Preparation Date of this Description	2024-2023-.

427. Objectives of the Academic Programme

Student are trained on examining patients and diagnose the disease of the patient through modern, currently approved diagnostic methods and make a treatment plan. Then, starting the treatment in a scientific way using modern materials and methods in making a complete denture, by giving theoretical lessons with practice in clinics

The practice of prosthodontics has continuous evolved as a result of progress in a laboratory and biomaterial science, clinical technologies and multidisciplinary advancements. There is a tendency of prosthodontists to assess their patient's treatment needs based on 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 a suitable prosthesis.

428. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 - Training the students on how to examine and diagnose pathological conditions.
A.2 - Providing important information and treatment steps.
A.3 - Providing guidance and following up the process of making a complete and flexible denture and other conditions such as relining or rebasing the complete denture or repair it.
A.4 - Providing the students with the skills of dealing with patients with considering the difference of their psychological, mode and health conditions, because the dentist does not treat the teeth, which are in the mouth of the patient, but rather, treat the patient who has the teeth in their mouth.

B. Programme Skill Objectives

B.1 - Describe the tools used to treat patients in need of complete dentures
B.2 - Practical training on steps to treat patients in need of full-time basis.
B.3 - Follow-up of the students while they are on practical trainings in clinics
B.4 - Follow-up the students during their completion of the laboratory denture steps, because students are obliged to do all laboratory work steps in the laboratory of students of fourth and fifth stages, which is fully equipped with all materials and supplies needed.

Methods of Teaching and Learning

- Intensive practical training inside the Dental Teaching Hospital
- LCD, lecture, Data show, Smart boards, illustrative films and discs
- seminars
- group learning workshops
- Annual Conference of College of Dentistry
- Graduation Research
- Summer Trainings

Assessment Methods

C. Thinking Skills

C.1 – Ability to solve problems.
C.2 – Ability of leadership
C.3 - Encouraging the spirit of scientific competition between students by making direct and indirect questions relating to various cases of dental medicine
C.4 - Encouraging students for self-development through peers, ongoing trainings, attendance of workshops and continuing academic courses inside and outside the College of Dentistry.

Methods of Teaching and Learning
Theoretical and practical Lectures (stimulus and response)
Assessment Methods
The theoretical and practical examinations, also, the requirements of treatment, which are the number of cases to be treated on a correct, professional and complete basis, are counted to be part of the requirements of the annual work, besides the graduation project.

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

D.1 – The student motivation for participating in the Academic Courses and conferences held inside and outside the College of Dentistry.

429. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	Occlusion in Complete Denture	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
2	1	Occlusion in Complete Denture (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
3	1	Retention, Stability and Support	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
4	1	Retention, Stability and Support (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
5	1	Post Insertion Problems	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
6	1	Post Insertion Problems (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
7	1	Complications of Complete Denture	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
8	1	Complications of Complete Denture (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
9	1	Immediate Denture	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
10	1	Immediate Denture (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
11	1	Classification system for completely edentulous patients	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
12	1	Classification system for completely edentulous patients(continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
13	1	Posterior palatal seal area	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
14	1	Single CD	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
15	1	Single CD (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
16	1	Geriatric Dentistry	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
17	1	Maxillofacial Prosthesis	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
18	1	Facial Prosthesis (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
19	1	Alveolar Ridge Atrophy	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
20	1	Alveolar Ridge Atrophy (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
21	1	Dental Implantology	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
22	1	Dental Implantology (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
23	1	Esthetics in CD	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
24	1	Characteristics of Ideal Materials for Dental Implant	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
25	1	Copy denture	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
26	1	Over Denture	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
27	1	Over Denture (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
28	1	Neutral zone in CD	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
29	1	Precision Attachments	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams
30	1	Precision Attachments (Continue)	Prosthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final theoretical exams

Clinical requirements

No.	Title of the sessions	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		150

430. Educational Institution	Kut University College
431. University Department/Centre	Department of Dentistry
432. The name/code of the Academic Programme	Orthodontics /ORT526
433. Programmes included	Dentistry
434. Available Academic Courses	theoretical lectures and clinics
435. Academic Study System/Year	Two semesters/ the fifth stage
436. Number of hours (total)	30 theoretical hours and 75 practical hours
437. Preparation Date of this Description	2024-2023

438. Objectives of the Academic Programme:

To prepare students for having a high level of scientific knowledge in the diagnosis and treatment of the minor cases of poor bites using movable and functional appliances.

439. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 – to gain knowledge of ways to diagnose and treat cases of poor bites
A.2 -
A.3 -
A.4 -
A.5 -
A.6 -

B. Programme Skill Objectives

B.1 – to learn the special diagnostic methods
B.2 - to learn the types of dental devices related to each case.
B.3.-
B.4 -.

Methods of Teaching and Learning

Lessons using power point (data show)
Training clinics to evaluate jaw and teeth

Assessment Methods

Short, quarterly, half-year and final exams

C. Thinking Skills

C.1 - The ability to solve the problem of bad dentures by using movable and functional devices.
C.2 -
C.3 -
C.4 -

Methods of Teaching and Learning

Theoretical lessons and medical clinics

Assessment Methods

Short, quarterly, half-year and final exams

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

D.1 -Prepare the students in practice for diagnosing and treating minor poor bites.
D.2 -
D.3 -
D.4 -

440. Academic Course structure					
Week	**Hours**	**Theoretical content**	**Academic Course name**	**Teaching Method**	**Assessment method**
1	1	**<u>Orthodontic diagnosis and treatment planning:</u>** a. Personal data (name, age, gender, race, address, reference and chief complaint, motivation, dental and medical history, prenatal history, postnatal history, and family history)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
2	1	b. Clinical examination i. General body stature ii. Face examination in3 dimensions (facial proportion, facial divergence, profile, analysis)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3		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)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	1	v. Occlusion (classification, midline, overjet and overbite) vi. Dentition (teeth number, position, dental age, wear, cracks and white spots) vii. Temporomandibular joint	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
5		c. Diagnostic aids i. Orthopantomography (development, advantages, disadvantages, limitations, uses) ii. Study models (preparation, advantages, disadvantages, uses)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
6	1	iii. Cephalometrics (development, cephalostat, advantages, disadvantages, limitations, uses, tracing and landmarks) iv. Other views: hand wrist and periapical radiographs (skeletal maturity, localization, root resorption)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	1	v. Photography vi. 3Dimaging d. Consent form	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	1	e. treatment planning: preventive, interceptive, and corrective orthodontics	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
9	1	**<u>Incisal overbite and crossbite:</u>** a. Deep bite (types, etiology, treatment)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	1	b. Open bite (types, etiology, treatment, skeletal vs. dental)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
11	1	c. Cross bite and scissors bite (types, d. etiology, treatment, skeletal vs. dental)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	1	c. Cross bite and scissors bite (types, d. etiology, treatment, skeletal vs. dental)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	1	**Crowding, spacing, space need:** a. Types of crowding (primary, Secondary and tertiary)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	1	b. Space analysis (in permanent and mixed dentition, space required and potential space, methods, Bolton's ratio)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
15	1	c. Space creation (molar distalization, expansion, extraction, incisor proclination, proximal stripping, derotation and up tightening)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	1	d. Closure of spaces (molar protraction, incisor retraction, conservative)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
17	1	e. Teeth extraction in orthodontics (Types: enforced, therapeutic, Wilkinson, balancing and compensating extractions) (indications, advantages, disadvantages for each tooth) f. Serial extraction (definition, indications, procedure, advantages, limitations)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
18	1	**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)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
19	1	b. Early loss of deciduous teeth (space maintainers and space regainers) c. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
20	1	d. Abnormal eruptive behaviour (dis-placement, transposition) e. Large frenum (labial and lingual)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
21	1	f. Bad oral habits	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
22	1	**Treatment of general factors:** a. Class I treatment (etiology, skeletal and soft tissue pattern, dental factors, bimaxillary proclination, treatment methods and time)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Week	Hours	Theoretical content	Academic Course name	Teaching Method	Assessment method
23	1	a. Class I treatment (etiology, skeletal and soft tissue pattern, dental factors, Bimaxillary proclination, treatment methods and time)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
24	1	b. Class II div. 1 treatment (etiology, skeletal and soft tissue pattern, dental factors, habits, treatment methods and time)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
25	1	c. Class II div. 2 treatment (etiology, skeletal and soft tissue pattern, dental factors, treat-ment methods and time)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
26	1	d. Class III treatment (etiology, skeletal and soft tissue pattern, dental factors, treatment methods and time)	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
27	1	Treatment of adults	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
28	1	Periodontal problems and orthognathic surgery	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
29	1	Cleft lip and palate	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
30	1	Embryology, classification, dental effects, treatment	Orthodontics	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

12. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	1. Contemporary orthodontics 2. Textbooks of orthodontics 3. Orthodontics; current principles and technique 4. Introduction to orthodontics
Special requirements (including, for example, work-shops, seminars, software and websites)	Students prepare reports on various subjects in the field of study under the supervision of their lecturers of the subjects and holding (seminars).
Social services (for example, guest lesson and professional training, and practical Academic Courses)	

Clinical requirements

No.	Title of the sessions	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	75

441. Educational Institution	Kut University College
442. University Department/Centre	Department of Dentistry
443. The name/code of the Academic Programme	Periodontics / PER528
444. Programme included	Periodonics (Dentistry)
445. Available Academic Courses	Student attendance at lectures, clinics and seminars throughout the school year
446. Academic Study System /Year	Two semesters/ fifth stage
447. Number of hours (total)	75 practical hours and 30 theoretical hours
448. Preparation Date of this Description	2024-2023-.

449. Objectives of the Academic Programme

1. The main objective of the branch is to increase the health awareness of the health of the citizens' mouth and teeth and to diagnose and treat patients who suffer from periodontal diseases through the preparation of a medical staff of the students who performs this role after their graduation and serve in the health centres, which are spread all over Iraq.
2. The educational aspect: By giving lectures, holding scientific seminars and performing advanced surgical operations for training students.
3. The therapeutic and preventive aspect: The branch currently covers diagnosis, treatment and follow-up of all pathological conditions related to a periodontal disease referred to the faculty as well as the preventive aspect of this subject.

450. Programme outputs and teaching, learning and assessment methods

A. Cognitive Objectives (Knowledge and Understanding)

A.1 - Formulate information in such a way as to enable students to understand and increase their knowledge regarding the diagnosis and treatment of various periodontal disease.

A.2 -Giving students instructions on oral and dental care for patients visiting the College of Dentistry.

A.3 -Students have knowledge of all means of health education of patients for the prevention of periodontal disease.

B. Programme Skill Objectives

B1. Training students to remove sediments and internal and external discolouration from teeth and gum blading and learn to make some minor surgical interventions

B2. Giving instructions for oral health care

B3. Learning the preventive aspect to prevent periodontal disease and to prevent the development of the periodontal disease from getting worse.

Methods of Teaching and Learning

1. Data show
2. Educational movies

A3. LCD

A4. Electronic screens

A5. Transverse cameras

A6. Smart boards

Assessment Methods

Perform written, oral and clinical examinations and short exams

C. Thinking Skills

C1. Student ability to solve problems and have distinctive thinking

C2. Ability to lead student groups

C3. Assessing student achievements

Methods of Teaching and Learning
Following up the student thinking, expression and responsiveness methods by using all available ways of learning, such as data show, tutorials, electronic screens and more.
Assessment Methods
Preparation of reports, working and theoretical examinations and grading.

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

D.1 - Professional preparation
D.2 - Scientific preparation
D.3 - Cultural preparation
D.4 - Recruitment of skills gained so that the students have become dentists capable of treating patients.

451. Academic Course Structure					
Week	**Hours**	**Academic Course name**	**Theoretical content**	**Teaching Method**	**Assessment method**
1	2	Periodontics	Diagnosis & classification of periodontal disease	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
3	1	Periodontics	Advance diagnosis	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
4	2	Periodontics	Tooth mobility	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
6	2	Periodontics	Furcation involvement	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
8	2	Periodontics	Epidemiology of periodontal disease	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
10	2	Periodontics	Immunopathology	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
12	1	Periodontics	Dentin hypersensitivity	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
13	1	Periodontics	Halitosis	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
14	2	Periodontics	Perio & other aspects of dentistry	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams

Week	Hours	Academic Course name	Theoretical content	Teaching Method	Assessment method
16	2	Periodontics	Medical compromised patient	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
18	2	Periodontics	Periodontal surgery	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
20	1	Periodontics	Laser therapy	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
21	2	Periodontics	Non-surgical periodontal therapy	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
23	1	Periodontics	Cross infection	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
24	1	Periodontics	Risk factors in the etiology of periodontal disease	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
25	1	Periodontics	Antibiotics in periodontology	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
26	2	Periodontics	Healing & regeneration	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
28	2	Periodontics	GTR	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams
30	1	Periodontics	Gingival crevicular fluid	A theoretical lesson using Power Point	Practical, short, quarterly, half and final exams

452. Infrastructure	
Required bibliography: • The basic texts • Course books • Other	Book for Linda 2009 and Crianza 2012
Special requirements (including, for example, workshops, seminars, software and websites)	The establishment of continuing education Academic Courses and seminars
Social services (for example, guest lesson and professional training, and practical Academic Courses)	Holding seminars on raising health awareness for patients who have periodontal disease.

5th year clinical requirement	**Type of treatment**
	Motivation and instruction
2.5h\week	Scoring Plaque & Gingival indices, pocket depth, bleeding on probing. Min = 20, Max =25
75 h\year	Scaling Min = 12, Max = 20 per patient
	Root planning Min= 6, Max= 12 teeth
	Seminar presentation=2
	Surgery =1
	Maintenance per each case