University of Al-Ameed / College of Dentistry

Curriculum

2021/2022

The College of Dentistry was established at The University of Al-Ameed in the academic year 2017-2018. It is located in the holy province of Karbala. It aims to support the Iraqi community with qualified dentists who work within the vision of the ministry and the university to serve our beloved country. The presidency of the University and the College administration have been keen on attracting the most important scientific competencies inside Iraq and abroad, to teach and train the College students at the best and highest levels. The administration of the College and its scientific branches also aim to eliminate all scientific difficulties that students face during their study period. Moreover, the College is interested in shaping the students' personalities, enabling them to face difficult work conditions after graduation. For the sake of accomplishing the aforementioned tasks, the College had adopted a solid curriculum outlined below.

University name: University of Al-Ameed
College name: College of Dentistry
Number of scientific branches: Seven branches
Teaching language: English.
Duration of study: Five years; three academic years (for 1st, 2nd &3rd years) and two calendar years (for 4th &5th years).
Date: 2021

University of Al-Ameed / Faculty of Dentistry
Curriculum

First academic year (30 weeks)

Department of Oral & Maxillofacial Surgery
Basic information

1- Subject title	Anatomy	
2- Subject time	First Year	
3- Credits	6	
	Theory	Practical
4-Number of contact hours h/week	2	2
5- Lecturer(s)		

Time table: Theory

Week No.	Titles of lectures	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	2

	□ Major Foramina and Fissures locations and structures pass through □ Neonatal Skull	
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
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	2

	□ Bones of the Lower extremities	
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

Time table: Practical

Week No.	Titles of 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
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

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	20%	15%	5%
Second semester	20%	15%	5%
Final examination	60%	40%	20%
Final Grade	100%	70%	30%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of Basic Sciences

Basic information

1- Subject title	Medical Biology	
2- Subject time	First Year	
3- Credits	6	
	Theory	Practical
4-Number of contact hours h/week	2	2
5- Lecturer(s)		

Time table: Theory

Week No	Title of the lectures	Hours
1	Introduction to Medical Biology	2
2	Prokaryotes and Eukaryotes	2
3	Immunity	2
4	Bacteria and disease	2
5	Genetic	2
6	Simple epithelial tissue	2
7	Stratified epithelial tissue	2
8	Glandular epithelial tissue	2
9	General connective tissue	2
10	Muscular tissue	2
11	Nerve tissue	2
12	Cell structure	2
13	Plasma membrane structure	2
14	Passage of Materials across Cell Membrane	2
15	Cell cycle	2
16	Mitosis and meiosis	2
17	Cell energy	2
18	Nucleic acid, DNA and RNA	2
19	Introduction to parasitology	2
20	Types of parasites and host	2
21	Protozoa	2
22	Human *amoebas,E. histolytica, E.coli, E.gingivalis*	2
23	Flagellates, *Giardia lamblia, Trichomonas tenax, T.hominas, T.vaginalis*	2
24	*Leishmania* , cutaneous and vesiral	2
25	Sporozoa, *Plasmodium spp.*	2

26	*Toxoplasma gondii*	2
27	Nemathelminthes, *Ascaris lumbricoides*,	2
28	*Ancylostoma duodenale, Entrobius vermicularis*	2
29	Platyhelminthes, *Fasciola hepatica*	2
30	*Schistosoma spp.*	2
		60

Time table: Practical

Week No.	Lab. title	Hours
1	Laboratory safety	2
2	Parts of microscope	2
3	Types of cells	2
4	Simple epithelial tissue	2
5	Stratified epithelia tissue	2
6	Glandular epithelial tissue	2
7	Serous, Mucous, Sero-mucous cell glands	
8	Proper connective tissue, Loose	2
9	Proper connective tissue, dense	2
10	Special connective tissue, type of cells	2
11	Cartilage, Hyaline, Elastic, Fibro	2
12	Compact and spongy bone	2
13	Human Blood, W.B.C , R.B.C and frog blood	2
14	Muscular tissue: Skeletal, cardiac and smooth muscles	2
15	Nerve cell	2
16	Central and peripheral nerve system	2
17	Spinal cord and meninges	2
18	*Entamoeba histolytica , Entamoeba coli*	2
19	*Giardia lamblia , Trichomonas vaginalis* *Trichomonan tenax*	2
20	*Leishmania tropica,Leshmania donovani*	2
21	*Trypanosoma gambiense,T.rhodesiense*	2
22	*Plasmodium vivax, Toxoplasma gondii*	2
23	*Balantidium coli*	2
24	*Echinococcus granulosus,Taenia saginata* *Taenia solium*	2
25	*Ancylostoma, Ascaris , Entrobius*	2
26	*Schistosoma spp, Fasciola hepatica*	2
27	Endoskeleton of frog	2

28	Experiment...examine samples of water	2
29	Experiment...examine samples of water (one hour), Experiment ...Blood groups(one hour)	2
30	Experiment ...Blood groups	2
Total		60

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	20%	15%	5%
Second semester	20%	15%	5%
Final examination	60%	40%	20%
Final Grade	100%	70%	30%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments		No ×
7	Others (specify)	Yes	

Department of Basic Science

Basic information

1- Subject title	Computer	
2- Subject time	First Year	
3- Credits	5	
	Theory	Practical
4-Number of contact hours h/week	1	3

5- Lecturer(s)		

Time table: Theory

Week No.		Hours
1	Introduction about Excels /A Look at Microsoft Excel	1
2	Modifying A Worksheet	1
3	/performing Calculations	1
4	Formatting a worksheet/	1
5	Developing a work book	1
6	Printing Workbook Contents	1
7	Customizing Layout	1
8	Introduction about Microsoft Power point/starting power point	1
9	Formatting text	1
10	Using graphics and Text	1
11	Manipulating the slides	1
12	Using Multimedia Elements	1
13	Add Animation	1
14	Add Sound and movies	1
15	Power point Management	1
16	Introduction about Microsoft Access/ A look at Microsoft Access	1
17	Starting Microsoft Access	1
18	Part 1: Using an Existing Table	1
19	Sorting& Selecting Records	1
20	Using a Form& Using a Report	1
21	Part 2 : Creating a New Table/ Designing the	1
22	Creating a Data Entry Form& Entering Data Table/ Using the Form& Importing Data	1
23	Part 3: Relating Tables Together	1
24	Relationships	1
25	Creating a Report/ Using AutoReport	1
26	Introduction about internet l.	1
27	Introduction about email	1
28	Browse the web	1
29	adding a web page to favorites	1
30	Displaying a history visited web page	1
Total		30

Time table: Practical

Week No.	Lab. Experiment	Hours
1	Introduction about compute /Hardware and Software/computer structure/`Floppy magnetic disks	3
2	Operating systems/CD-ROM/	3
3	Create Files &Folders High level programming language /Constant and variable/Library Function /Arithmetic expression/Type of Monitor /Number of systems	3
4	Introduction about MS-DOS Operating systems/DOS drive /Key-Board	3
5	DOS commands /Internal Commands/External Commands	3
6	Introduction about Windows /A look at Windows 7/Stating Windows XP/Working with a windows Program	3
7	Working with files and folders/ Using My computer	3
8	Working with Taskbar and Desktop	3
9	Using Windows Accessories	3
10	A look at Control Panel	3
11	Widows Explorer	3
12	libraries	3
13	Introduction about Microsoft Word A look at Microsoft Word /Editing Document	3
14	Formatting Text/	3
15	Formatting paragraphs	3
16	Proofing documents	3
17	Adding Tables	3
18	Inserting Graphic Elements	3
19	Controlling page Appearance	3
20	Introduction about Excels /A Look at Microsoft Excel	3
21	Modifying A Worksheet /performing Calculations	3
22	Formatting a worksheet/ Developing a work book	3
23	Printing Workbook Contents/Customizing Layout	3
24	Introduction about Microsoft Access/ A look at Microsoft Access	3
25	Creating Data tables /properties of the fields	3
26	Querying the database/Designing Forms/Producing reports	3
27	Introduction about Microsoft Power point/starting power point	3
28	Formatting text/Using graphics and Text	3
29	Manipulating the slides/Using Multimedia Elements	3
30	Power point Management	3
Total		90

The grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	20%	15%	5%
Second semester	20%	15%	5%
Final examination	60%	40%	20%
Final Grade	100%	70%	30%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments		No ×
7	Others (specify)	Yes	

Department of Basic science

Basic information

1- Subject title	Medical Physics	
2- Subject time	First Year	
3- Credits	6	
	Theory	Practical
4-Number of contact hours h/week	2	2
5- Lecturer(s)		

Time table: Theory

Week No.	Title of the lectures	Hours
1	Terminology	2
2	*Force on &in body:* Static forces :(type of levers with medical examples). Dynamic forces *(Centrifuge)	2

3	*Physics of the skeleton:* Bones:(Function of bones, Composition of bone, bone remodeling, compact and trabecular bone) Stress-strain curve :(compressive and tensile stress, young modulus). Bone joints :(Synovial fluid, coefficient of a joint).	2
4	*Heat and cold in medicine:* Temperature scales, thermograph, cold in medicine and cryosurgery	2
5	*Energy, work and power of the body:* First law of thermodynamic. Energy change in the body (Met, Basal metabolic rate (BMR). Work and power. Efficiency heat losses from the body. Anaerobic phase and aerobic phase. Hypothalamus (body's thermostat).Heat lost by (radiation, convection, evaporation of sweat and respiration).	2
6	*Pressure:* Definition, absolute pressure, gauge pressure, negative pressure, unit of pressure. Measurement of pressure in the body (Manometer). Pressure inside the skull. Eye pressure.	2
7	Pressure in the skeleton. Pressure in the urinary bladder. Boyle's law: (pressure while diving). HOT (hyperbaric oxygen therapy).	2
8	*Physics of the lung and breathing:* Function of the breathing system. The airways (the alveoli, the function of airways. Gases exchange in the lungs (ventilation, perfusion, Dalton law, Henry law, diffusion of gases, oxygen saturation curve).	2
9	Measurement of lung volumes (spirometer). Pressure airflow volume relationship of the lungs. Compliance. Surface tension (physics of alveoli, Laplace law). Breathing mechanism, airways resistance, work of breathing. Physics of lung diseases.	2
10	*Physics of cardiovascular system:* Work done by the heat Blood pressure and its measurement (indirect measurement, sphygmomanometer).	2
11	Pressure across the blood vessel wall (Laplace wall). Bernoulli's principle applied to the cardiovascular system. Poiseuilles equation, laminar and turbulent flow, viscosity, Reynolds number.	2
12	Physics of cardiovascular diseases.	2
13	*Electricity within the body:* Electrical potential of nerves (resting potential, action potential in myelinated and unmyelinated nerves)	2
14	Electromyogram (EMG). Electrical potential in the heart (electrocardiogram ECG).	2

15	Electroencephalogram (EEG).	2
16	*Biofeedback:* Cardiovascular instrumentation (electrodes, amplifiers, monitoring, defibrillators, pace makers).	2
17	Application of electricity (macro and micro electrical shock, high frequency electricity in medicine). Short wave diathermy (capacitance and inductance method). Microwave diathermy (characteristics, interaction with tissues).	2
18	*Sound in medicine:* Properties of sound. Stethoscope (including heart sound).	2
19	Ultrasound (A-scan, B-scan, M-scan and Doppler effect). Physiological effect of ultrasound in therapy.	2
20	*Physics of the ear and hearing:* Structure of the ear (outer ear, middle ear, inner ear). Sensitivity of the ear.	2
21	*Light in medicine:* Properties of light, measurement of light and its units. Application of visible light in medicine (endoscope).	2
22	Application of ultraviolet and infrared light in medicine. Laser in medicine. Application of microscopes in medicine.	2
23	*Physics of eye and vision:* Focusing element of the eye (cornea, lens). Element of the eye (pupil, aqueous humor, vitreous humor, sclera). Visual acuity, snellen chart, optical density.	2
24	Defective vision, audits correlation (short and long sight, Astigmatism, contact lenses, glasses prescription.	2
25	Color vision and chromatic aberration (color blindness, purkinje effect, and ocular chromatic aberration). Ophthalmoscope.	2
26	*Physics of diagnostic X-ray:* Properties of X-ray, production of X-ray. Absorption of X-ray, contrast media.	2
27	X-ray image (penumbra, grid, intensifying screens). Radiation to patients from X-ray (filters).	2
28	*Physics of nuclear medicine:* Radioactivity decay, half-life, units. Basic instrumentation and its medical application (GM-tube,	2
29	Photomultiplier tube, scintillation detector, solid state detector). Therapy with radioactivity. Radiation doses in nuclear medicine.	2
30	*Physics of radiation therapy:* The dose units (Rad and Gray). Principles of radiation therapy. Brach therapy, quality factor (QF).	2
Total		60

Time table: Practical

Week No.	Study unit title	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
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

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	20%	15%	5%
Second semester	20%	15%	5%
Final examination	60%	40%	20%
Final Grade	100%	70%	30%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments		No ×
7	Others (specify)	Yes	

Department of Basic science

Basic information

1- Subject title	Human Rights	
2- Subject time	First Year	
3- Credits	2	
	Theory	Practical
4-Number of contact hours h/week	1	0
5- Lecturer(s)		

Time table

تسلسل الأسابيع	موضوع المحاضرة	الساعات
1	المقدمة /الباب الأول في حقوق الإنسان الفصل الأول /حقوق الإنسان في الحضارات القديمة المبحث الأول /حقوق الإنسان في الحضارات اليونانية والمصرية المطلب الأول /حقوق الإنسان في الحضارة اليونانية المطلب الثاني /حقوق الإنسان قي الحضارة المصرية القديمة المبحث الثاني /حقوق الإنسان في الحضارات القديمة	1
2	الفصل الثاني /حقوق الإنسان في الشرائع والأديان السماوية المبحث الأول /حقوق الإنسان في الديانات المسيحية واليهودية المبحث الثاني /حقوق الإنسان في الإسلام	1
3	الفصل الثالث /مصادر حقوق الإنسان المبحث الأول /المصادر الدولية المطلب الأول /الإعلان العالمي لحقوق الإنسان	1
4	المطلب الثاني /العهدان الدوليان الخاصان بحقوق الإنسان	1
5	المبحث الثاني / المصادر الوطنية المطلب الأول /إعلان حقوق الإنسان والمواطن الفرنسي (26 اب 1789)	1
6	المطلب الثاني /الدساتير و ألإعلانات الفرنسية التي تلت إعلان الحقوق لسنه 1789	1
7	المطلب الثالث /دستور جمهورية العراق لسنه 2005	1
8	الفصل الرابع /ضمانات حقوق الإنسان المبحث الأول /ضمانات حقوق الإنسان على الصعيد الداخلي المطلب الأول /الضمانات الدستورية	1
9	المطلب الثاني /الضمانات القضائية	1
10	المبحث الثاني /ضمانات حقوق الإنسان في الإسلام المطلب الاول /إقرار مبدأ ثنائية المسؤولية في المجتمع الإسلامي المطلب الثاني /الصفة الدينية للقانون الإسلامي.	1
11	المطلب الثالث /بعض الأنظمة الإسلامية لمصلحة الفرد والجماعة والسلطات الحاكمه	1
12	المبحث الثالث /ضمانات حقوق الإنسان على الصعيد الدولي المطلب الأول /ميثاق الأمم المتحدة	1

	المطلب الثاني /الجمعية العامة للأمم المتحدة	
13	الطلب الثالث /المجلس الاقتصادي والاجتماعي المطلب الرابع /مجلس حقوق الإنسان	1
14	المبحث الرابع /دور المنظمات الإقليمية في حماية حقوق الإنسان المطلب الأول /الاتفاقية الأوربية لحقوق الإنسان	1
15	المطلب الثاني /الاتفاقية الأمريكية لحقوق الإنسان المطلب الثالث /الميثاق الإفريقي لحقوق الإنسان والشعوب المطلب الرابع /الميثاق العربي لحقوق الإنسان الفصل الخامس /مستقبل حقوق الإنسان المبحث الأول /التقدم التكنولوجي وأثره على الحقوق و الحريات حقوق الإنسان والحريات العامة .	1
16	المطلب الأول /الأحزاب السياسية وحقوق الإنسان المطلب الثاني /دور الإعلام والتنشئة	1
17	المبحث الثاني /العولمة وحقوق الإنسان المطلب الأول /الخصوصية وحقوق الإنسان المطلب الثاني /الهيمنة وحقوق الإنسان	1
18	الفصل الأول /مفهوم الديمقراطية, تطوره تعريفه وإبعاده المبحث الأول /جذور مفهوم الديمقراطية و تطورها	1
19	المبحث الثاني /تعريف الديمقراطية	1
20	المبحث الثالث /الديمقراطية بين العالمية والخصوصية.	1
21	الفصل الثاني /إشكال الديمقراطية البحث الأول /الديمقراطية المباشرة المطلب الأول /مضمون الديمقراطية المباشرة المطلب الثاني /تطبيقات الديمقراطية المباشرة المطلب الثالث /تقدير نظام الديمقراطية المباشرة	1
22	المبحث الثاني /الديمقراطية شبه المباشرة المطلب الأول /مفهوم الديمقراطية شبه المباشرة مطلي الثاني /مظاهر الديمقراطية شبه المباشرة	1
23	المطلب الثالث /تقدير نظام الديمقراطية شبه المباشرة المبحث الثالث /الديمقراطية التمثيلية.	1
24	المطلب الاول /مفهوم النظام التمثيلي وطبيعته القانونية المطلب الثاني /أركان النظام التمثيلي	1
25	المطلب الثالث /إشكال النظام التمثيلي النيابي	1
26	المبحث الرابع / المجلس النيابي المطلب الأول / نظام المجلس النيابي الواحد ونظام المجلسين المطلب الثاني التنظيم الداخلي للمجلس النيابي	1
27	الفصل الثالث /أليه النظام التمثيلي النيابي :الانتخاب المبحث الأول /مفهوم الانتخاب وتكيفه القانوني المطلب واحد /مفهوم الانتخاب المطلب الثاني /التكيف القانوني للانتخاب المبحث الثاني /هيئة الناخبين المطلب الأول /مفهوم هيئة الناخبين المطلب الثاني /تكوين هيئة الناخبين	1
28	المطلب الثالث /المرشحون لانتخاب المبحث الثالث /تنظيم عملية الانتخاب المطلب الأول /تحديد الدوائر الانتخابية المطلب الثاني /الدوائر الانتخابية المطلب الثالث /المرشحون	1

1	المطلب الرابع /الحملة الانتخابية المطلب الخامس /التصويت المبحث الرابع / تنظيم الانتخابات المطلب الثاني /الانتخاب الفردي والانتخاب بالقائمة الامريكية (اسيان) .	29
1	المطلب الثالث /نظام الأغلبية ونظام التمثيل النسبي المطلب الرابع /نظام تمثيل المصالح المطلب الخامس /نظام التصويت الاختيار والتصويت الاجباري المطلب السادس /نظام التصويت السري والتصويت العلني	30
30		Total

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	15%	15%	0%
Second semester	15%	15%	0%
Final examination	70%	70%	0%
Final Grade	100%	100%	0%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments		No ×
7	Others (specify)	Yes	

Department of basic sciences

Basic information

1- Subject title	Medical Chemistry	
2- Subject time	First Year	
3- Credits	6	
	Theory	Practical
4-Number of contact hours h/week	3	4
5- Lecturer(s)		

Time table: Theory

Week No.	Titles of the lectures	Hours
1	Acid, Base and Salt	3
2	salts, preparation of salts	3
3	Fluid and electrolyte	3
4	Buffer-pH and Acid-Base Balance	3
5	acid-base balance and blood pH	3
6	Colloids and colloidal dispersions	3
7	Molar concentration (Molarity)	3
8	Chirality in Biological Systems	3
9	Pollution	3
10	Radiochemistry	3
11	Alkanes and Cycloalkanes	3
12	Alkenes and Alkynes	3
13	Aromatic compounds	3
14	Aromatic compounds in Nature	3
15	Stereoisomers of Carbon	3
16	Diastereomers	3
17	Phenols (preparation, reactions)	3
18	Carboxylic Acids And Their Derivatives	3
19	Amides	3
20	Aldehydes and ketones	3
21	Carbohydrates	3
22	Monosaccharide’s	3
23	Disaccharides	3

24	Lipids	3
25	Derived lipids	3
26	Proteins and Amino Acids	3
27	Amino acids	3
28	Nucleic Acids	3
29	Nucleosides, Nucleotides	3
	Dioxy and ribo Nucliec acids	
30	Phenols (preparation, reactions)	3
Total		90

Time table: Practical

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

25	Protein. (Unknown investigations)	4
26	Buffers.	4
27	Osmosis.	4
28	Acid-Base Titration.	4
29	Oxidation –Reduction.	4
30	pH-Meters.	4
Total		120

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	20%	15%	5%
Second semester	20%	15%	5%
Final examination	60%	40%	20%
Final Grade	100%	70%	30%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments		No ×
7	Others (specify)	Yes	

Department Of Restorative Dentistry
Basic information

1- Subject title	Dental Anatomy	
2- Subject time	First Year	
3- Credits	4	
	Theory	Practical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

Week No.	Title of the lectures/ Dental Anatomy	Hours
1	Introduction	1
2	Introduction	1
3	Numbering Systems	1
4	Numbering Systems	1
5	Anatomical Landmarks	1
6	Anatomical Landmarks	1
7	Permanent Maxillary Central Incisor	1
8	Permanent Maxillary Central Incisor	1
9	Permanent Maxillary Lateral Incisor	1
10	Permanent Maxillary Lateral Incisor	1
11	Permanent Mandibular Incisors	1
12	Permanent Mandibular Incisors	1
13	Permanent Mandibular Incisors	1
14	Permanent Canines	1
15	Permanent Canines	1
16	Permanent Maxillary Premolars	1
17	Permanent Maxillary Premolars	1
18	Permanent Mandibular First Premolars	1
19	Permanent Mandibular First Premolars	1
20	Permanent Mandibular Second Premolar	1
21	Permanent Maxillary First Molar Permanent maxillary second and third molars	1
22	Permanent Maxillary First Molar Permanent maxillary second and third molars	1
23	Permanent Mandibular First Molar	1

24	Permanent Mandibular Second and third Molars	1
25	Tooth Development	1
26	Tooth Development	1
27	Tooth Development	1
28	Pulp Cavities	1
29	Pulp Cavities	1
30	Occlusion and physiologic form of teeth and periodontium.	1
Total		30

Time table: Practical

Week No.	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
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.Mand 1st 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

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	25%	15%	10%
Second semester	25%	15%	10%
Final examination	60%	30%	20%
Final Grade	100%	60%	40%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems	Yes √	
2	Internet access and E-mail	Yes √	
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	

5	Digital camera		No ×
6	Video and audio media equipments	Yes √	
7	Others (specify)		No ×

Department of Basic Sciences

Basic information

1- Subject title	Fundamentals of Dentistry (Medical terminology)	
2- Subject time	First Year	
3- Credits	2	
	Theory	Practical
4-Number of contact hours h/week	1	0
5- Lecturer(s)		

Time table:

Week No.	Title of the lectures	Hours
1 2	• 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 Colors • Divide medical words into their component parts. • Use multiple words' roots in a compound word.	2
3 4	• Revision of listing and defining important prefixes that deal with, numbers, colors, 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.	2
5	• Body structure and organization	2

6	• Name and elements of the body systems: Cells, tissues, organs, and systems. • Commonly used anatomical descriptive and directional terms, planes, and regions. • Spell, define, and pronounce new terms in this lecture.	
7	The Integumentary system • Definition and parts of this system • Function and disorders. • Spell, pronounce, and explain important common terms in this system.	1
8 9	Gastrointestinal System • Definition and parts of this system. • Function and disorders. • Spell, pronounce, and explain important common terms in this system.	2
10 11 12 13 14	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.	5
15	CARDIOVASCULAR SYSTEM • Definition and parts of this system. • Function and disorders. • Spell, pronounce, and explain important common terms in this system.	1
16 17	Blood, Lymph, and Immune Systems • Definition and parts of this system. • Function and disorders. • Spell, pronounce, and explain important common terms in this system.	2
18	THE RESPIRATORY SYSTEM • Definition and parts of this system. • Function and disorders. • Spell, pronounce, and explain important common terms in this system.	1
19	Skeletal system	1
20	• Definition and parts of this system. • Function and disorders. • Spell, pronounce, and explain important common terms in this system.	1
21	Muscular system	1
22	• Definition and parts of this system. • Function and disorders. • Spell, pronounce, and explain important common terms in this system.	1

23	Nervous system • Definition and parts of this system. • Function and disorders. • Spell, pronounce, and explain important common terms in this system.	1
24	Genitourinary System • Definition and parts of this system. • Function and disorders. • Spell, pronounce, and explain important common terms in this system.	1
25	Endocrine System • Definition and parts of this system. • Function and disorders. • Spell, pronounce, and explain important common terms in this system.	1
26 27 28 29 30	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.	5
Total		30

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	15%	15%	0%
Second semester	15%	15%	0%
Final examination	70%	70%	0%
Final Grade	100%	100%	0%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments		No ×

7	Others (specify)	Yes	

Department of Basic Sciences

Basic information

1- Subject title	Arabic Language	
2- Subject time	First Year	
3- Credits	2	
	Theory	Practical
4-Number of contact hours h/week	1	0
5- Lecturer(s)		

Time table:

تسلسل الأسابيع	موضوع المحاضرة	الساعات
1	الموضوعات الأدبية المتنبي (حياة الشاعر مع قصيدة بالإضافة الى التعليق النقدي)	1
2	بدر شاكر السياب (حياة الشاعر مع قصيدة بالإضافة الى التعليق النقدي)	1
3	نازك الملائكة (حياة الشاعر مع قصيدة بالإضافة الى التعليق النقدي)	1
4	الجواهري (حياة الشاعر مع قصيدة بالإضافة الى التعليق النقدي)	1
5	الموضوعات النحوية الجملة الاسمية	1
6	الجملة الفعلية	1
7	المبتدأ	1
8	الخبر	1
9	النواسخ	1
10	العلامات الاصلية والفرعية في الاسم والفعل المضارع	1
11	العلامات الفرعية في الاسم والفعل المضارع	1
12	علامات النصب الفرعية	1
13	علامات الجر الفرعية	1
14	علامات الجزم الفرعية	1
15	الموضوعات الصرفية المشتقات	1
16	اسم الفاعل	1
17	صيغ المبالغة	1
18	اسم المفعول	1
19	الفعل المجرد والمزيد	1
20	المذكر والمؤنث وعلامات التأنيث	1

21	الاسم الناقص	1
22	جمع الاسم المنقوص	1
23	الاسم المقصور	1
24	جمع الاسم المقصور	1
25	الاسم الممدود	1
26	جمع الاسم الممدود	1
27	جموع التكسير	1
28	الموضوعات الاملائية . الحذف والزيادة الحروف التي تحذف الحروف التي تزاد	1
29	الالف المقصورة والالف الممدوة التاء المربوطة والتاء المفتوحة الضاد والظاد	1
30	الهمزة واحكامها علامات الترقيم	1
Total		30

Summary: First Year.
Total Theories - Hours/ Week: 15
Total Theories - Hours/ year: 15x30= 450
Total Practical Hours/ Week: 15
Total Practical Hours/ year: 15x 30= 450
Total Hours / Year: 900
Total credits: 45

University of Al-Ameed / Faculty of Dentistry
Curriculum
Second Academic Year (30 weeks)

Department of Oral & Maxillofacial Surgery

Basic information

1- Subject title	Anatomy	
2- Subject time	Second Year	
3- Credits	8	
	Theory	Practical
4-Number of contact hours h/week	2	4
5- Lecturer(s)		

Time table: Theory

Week No.	Title of the lectures	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	2

21	Alimentary tract	2
22	Alimentary tract	2
23	Alimentary tract	2
24	Alimentary tract	2
25	Major body vessels	2
26	Major 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

Time table: Practical

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

28	Anatomy of nerve block	4
29	Lymph drainage of head and neck	4
30	Spaces of head and neck	4
Total		120

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	20%	15%	5%
Second semester	20%	15%	5%
Final examination	60%	40%	20%
Final Grade	100%	70%	30%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of Basic Science

Basic information

1- Subject title	Biochemistry
2- Subject time	Second Year
3- Credits	4

	Theory	Practical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

Week No.	Title of the lectures	Hours
1	Enzymes:DefinitionTerminology: substrate; cofactor; coenzyme….	1
2	a- Classification, Model of enzyme – substrate binding substrate binding substrate binding b- Kinetic properties of enzyme	1
3	Enzyme inhibition	1
4	Enzymes in clinical diagnosis	1
5	Protein and amino acids metabolism	1
6	Urea formation	1
7	Metabolism of individual amino acids	1
8	a-Metabolism of amino acids b- Metabolism of branched chain amino acids	1
9	Decarboxylation reaction and biogenic amines,	1
10	Metabolic defects in amino acid metabolism.	1
11	Vitamins:Definition,vitamin A	1
12	Vit. D & Vit.E	1
13	Vit. K & Vit .C	1
14	Vit. B1 & Vit. B2 Vit. B12 &growth factors	1
15	B6 & pantothenic acid ,biotin	1
16	Metabolism of carbohydrate	1
17	Glycolysis and its regulation	1
18	Glycogen metabolism (synthesis and degradation)	1
19	Gluconeogenesis and control of blood glucose	1
20	Metabolism of galactose, fructose and mannose	1
21	Diabetes mellitus	1
22	Lipid metabolism, Oxidation of fatty acids	1
23	F.A. degradation	1
24	Oxidation of fatty acids	1
25	Biosynthesis of fatty acids	1
26	Triacylglycerol synthesis, Regulation of F.A. metabolism in mammals	1
27	Digestive system	1
28	salivary secretion (saliva), Pancreas : pancreatic juice	1
29	Intestine: intestinal juice, The bile	1
30	Detoxification	1

Total		30

Time table: Practical

Week No.	Study unit title	Hours
1	Lab safety	2
2	Sample collection(part1)	2
3	Sample collection (part2)	2
4	Spectrophotometer	2
5	Standard curve	2
6	Blood glucose+ HbA1c	2
7	Total Protein	2
8	Albumin+ Globulin	2
9	Troponin	2
10	Liver function test (Bilirubin)	2
11	Alkaline Phosphatase	2
12	Transaminases (GPT&GOT)	2
13	Lipid in blood (cholesterol & lipoprotein)	2
14	Triglyceride	2
15	Kidney function Test (urea)	2
16	Serum creatinine &creatinine clearness	2
17	General Urine Analysis(part1)	2
18	General Urine Analysis(part2)	2
19	Uric acid	2
20	Amylase in serum+ saliva	2
21	creatine phosphokinase	2
22	lactate Dehydrogenase	2
23	serum calcium	2
24	serum phosphorus	2
25	serum Na	2
26	serum K	2
27	serum Iron	2
28	Vitamin D	2
29	Vitamin C	2
30	Acid phosphatase.	2
Total		60

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	20%	15%	5%
Second semester	20%	15%	5%
Final examination	60%	40%	20%
Final Grade	100%	70%	30%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of Oral diagnosis

Basic information

1- Subject title	Embryology
2- Subject time	Second Year

3- Credits	4	
	Theory	Practical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

Week No.	Title of the lectures	Hours
1	first week of development ovulation and implantation	1
2	Fusion of Oocyte and sperm cell membranes	1
3	Second week of development: bilaminar germ layer	1
4	development of the fetus	1
5	Third to eight week: embryonic period	1
6	Third week of development trilaminar germ layer	1
7	Development of prechodral plate and primitive streak	1
8	Development of placenta and its functions	1
9	Types of Twins	1
10	Pharyngeal arch	1
11	Pharyngeal pouch and cleft	1
12	development of the face	1
13	Development of the Tongue	1
14	Development of the Palate	1
15	Facial anomalies	1
16	Development of Respiratory system	1
17	Congenital anomalies of Respiratory system	1
18	Development of Digestive system	1
19	Congenital anomalies of Digestive system	1
20	Development of nervous system	1
21	Congenital anomalies of nervous system	1
22	Development of muscular system	1
23	Congenital anomalies of muscular system	1
24	Development of skeletal system	1
25	Congenital anomalies of skeletal system	1
26	Development of cardiovascular system	1
27	Congenital anomalies of cardiovascular system	1
28	Development of endocrine	1

29	Congenital anomalies of endocrine	1
30	Molecules related to developmental anomalies	1
Total		30

Time table: Practical

Week No.	Study unit title		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 week: embryonic period	data show projector	2
6	Third week of development trilaminar germ layer	Video presentation	2
7	Development of prechodral 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 system	Video	2
28	Development of endocrine	Video	2

29	Congenital anomalies of endocrine	Data show figures	2
30	Molecules related to developmental anomalies	Video and Data show figures	2
Total			60

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	20%	15%	5%
Second semester	20%	15%	5%
Final examination	60%	40%	20%
Final Grade	100%	70%	30%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of Basic Science

Basic information

1- Subject title	General Histology	
2- Subject time	Second Year	
3- Credits	6	
	Theory	Practical
4-Number of contact hours h/week	2	2
5- Lecturer(s)		

Time table: Theory

Week No.	Title of the lectures	Hours
1	Epithelial tissue	2
2	Connective tissue	2
3	Resp. system: conducting portion	2
4	Resp. system: respiratory portion	2
5	Urinary system :Nephrons	2
6	Urinary system :Ureter & urinary bladder	2
7	Skin : Epidermis	2
8	Skin : Dermis	2
9	Skin glands , hair , nail	2
10	Hemopoeisis , bone marrow	2
11	Hemopoeisis : Blood cells	2
12	Circulatory system	2
13	Circulatory system	2
14	Lymphoid system	2
15	Lymphoid system	2
16	Nervous system	2
17	Nervous system	2
18	Endocrine system	2
19	Endocrine system	2
20	Endocrine system	2
21	Digestive system	2
22	Digestive system	2
23	Digestive system	2

24	Digestive system	2
25	Male reproductive system	2
26	Male reproductive system	2
27	Female reproductive system	2
28	Female reproductive system	2
29	Sense organ (eye)	2
30	Sense organ (ear)	2
Total		60

Time table: Practical

Week No.	Study unit title	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

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	20%	15%	5%
Second semester	20%	15%	5%
Final examination	60%	40%	20%
Final Grade	100%	70%	30%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×

7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of prosthodontics

Basic information

1- Subject title	Dental Material	
2- Subject time	Second Year	
3- Credits	5	
	Theory	Practical
4-Number of contact hours h/week	1	3
5- Lecturer(s)		

Time table: Theory

Week No.	Title Of The Lectures	Hours
1	Introduction and physical properties of dental material	1
2	Mechanical properties	1
3	Gypsum materials	1
4	Gypsum materials	1
5	Impression materials	1
6	Impression materials	1
7	Impression materials	1
8	Impression materials	1
9	Impression materials	1
10	Waxes	1
11	Waxes	1
12	Polymers	1
13	Polymers	1
14	Polymers	1
15	Investment materials	1
16	Cement materials	1
17	Cement materials	1

18	Temporary filling	1
19	Metal and metal alloy	1
20	Metal and metal alloy	1
21	Crown and bridge material	1
22	Filling materials	1
23	Filling materials	1
24	Filling materials	1
25	Filling materials	1
26	Filling materials	1
27	Preventive materials	1
28	Root canal filling materials (obturating materials)	1
29	Finishing and polishing material	1
30	Relining material	1
Total		30

Time table: Practical

No.	Title of lab.	Hours
1-	Introduction and physical properties of dental material	3
2-	Mechanical properties(stress strain curve)	3
3-	Showing different types of gypsum materials (plaster ,stone)	3
4-	Steps of mixing plaster and demonstrate the steps of setting.	3
5-	Impression plaster , demonstrate the manipulation of impression compound .	3
6-	Zinc oxide impression material and agar impression \demonstrate the mixing of zinc oxide impression .	3
7-	Alginate impression (elastic impression) showing the trays used and the mixing of alginate and water according to manufacturer instructions.	3
8-	Poly sulphide ,condensation and addition silicon\mixing of heavy body and light body.	3
9-	Poly ether, hybrid impression , digital impression.	3
10-	Showing different types of wax(denture base plate ,denture casting wax and others)	3
11-	Demonstrate how to use wax material and its manipulation.	3
12-	Introduction to polymers.	3
13-	Different types of denture base materials(heat,cold and light activated polymers) demonstrate the mixing of polymer and monomer.	3

14-	Thermoplastic polymers (flexible denture base material).	3
15-	Investment materials (showing the method of the investment).	3
16-	Introduction to cement materials.	3
17-	Showing different types of cement materials and the method of mixing of cement.	3
18-	Temporary filling(use and manipulation).	3
19-	Introduction to metal and metal alloy.	3
20-	Showing the different types of metal and metal alloy.	3
21-	Introduction to crown and bridge material.	3
22-	Introduction to filling material.	3
23-	Amalgam filling\showing the amalgam capsules and mixing of amalgam.	3
24-	Composite filing (chemical and light activated).	3
25-	Micro filled ,hybrid ,and nano composite.	3
26-	Demonstrate the setting of chemical and light activated composite filling material	3
27-	Showing different types of preventive materials (tooth pastes, gargles. Mouth wash fluoride varnishes and resin sealers).	3
28-	Demonstrate the obturating materials(gatta percha ,sealers) and endodontic instruments.	3
29-	Finishing and polishing materials.	3
30-	Relining materials.	3
Total		90

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	25%	15%	10%
Second semester	25%	15%	10%
Final examination	50%	30%	20%
Final Grade	100%	60%	40%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	

4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of Prosthodontics

Basic information

1- Subject title	Prosthodontics	
2- Subject time	Second Year	
3- Credits	8	
	Theory	Practical
4-Number of contact hours h/week	2	4
5- Lecturer(s)		

Time table: Theory

Week No.	Title of The Lectures	Hours
1	Introduction	2
2	Anatomical landmarks	2
3	Anatomical landmarks	2
4	Complete Denture Impression	2
5	Complete Denture Impression	2
6	Complete Denture Impression	2
7	Record Base	2
8	Occlusion Rims	2
9	Anatomy And Physiology Of Temporomandibular Joint	2
10	Anatomy And Physiology Of Temporomandibular Joint	2
11	Maxillomandibular relation	2

12	Methods Of Recording Vertical Relation	2
13	Horizontal Jaw Relation	2
14	Dental Articulators	2
15	Face – Bow	2
16	Mounting	2
17	Selection Of Artificial Teeth	2
18	Selection Of Posterior Teeth	2
19	Arrangement Of Artificial Teeth	2
20	Arrangement Of Posterior Teeth	2
21	Waxing And Carving	2
22	Complete Denture Occlusion	2
23	Complete Denture Occlusion	2
24	Processing Of The Denture (Flasking)	2
25	Occlusal Correction	2
26	Finishing And Polishing Of Complete Denture	2
27	Repair Of Complete Denture	2
28	Repair Of Complete Denture	2
29	Relining And Rebasing	2
30	Relining And Rebasing	2
Total		60

Time table: Practical

Week No.	Study unit title	Hours
1	Clinical and laboratory steps of complete denture construction.	4
2	Taking primary impression on metal mold by impression compound+beading and boxing+pouring by dental plaster.	4
3	Pouring on rubber mold (upper and lower primary cast).	4
4	Description of anatomical landmarks (maxillary and mandibular).	4
5	Demonstration of making upper and lower special tray by cold cure acrylic.	4
6	Finishing and polishing of special tray and evaluation	4
7	Demonstration of taking final impression and construction of master cast.	4
8	Evaluation of record base construction +finishing and polishing.	4

9	Bite rims construction (upper and lower).	4
10	Demonstration of face bow and fox bite +description of types of jaw relation.	4
11	Description about the methods of recording vertical jaw relation	4
12	Description about the methods of recording horizontal jaw relation.	4
13	Demonstration about the types of articulators,parts,its uses and action.	4
14	Mounting of upper and lower casts on articulators.	4
15	Evaluation ,mounting of upper and lower casts on articulators (continue).	4
16	Description the methods of selection of anterior and posterior teeth for complete denture.	4
17	Demonstration about arrangement of upper and lower anterior teeth.	4
18	Evaluation ,arrangement of upper and lower anterior teeth (continue).	4
19	Demonstration about arrangement of upper and lower posterior teeth.	4
20	Arrangement of upper and lower posterior teeth(continue).	4
21	Evaluation ,arrangement of posterior teeth and carving of posterior palatal seal.	4
22	Demonstration about carving and waxing of upper complete denture.	4
23	Evaluation ,carving and waxing of lower complete denture.	4
24	Flasking and investment of the denture.	4
25	Wax elimination, packing and curing of heat cure acrylic.	4
26	Deflasking ,finishing and polishing of upper complete denture.	4
27	Deflasking ,finishing and polishing of lower complete denture.	4
28	Demonstration of selective grinding.	4
29	Repair of fracture denture.	4
30	Repair of missing tooth.	4
Total		120

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	25%	15%	10%
Second semester	25%	15%	10%
Final examination	50%	30%	20%
Final Grade	100%	60%	40%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of Oral Diagnosis

Basic information

1- Subject title	Oral Histology	
2- Subject time	Second Year	
3- Credits	6	
	Theory	Practical
4-Number of contact hours h/week	2	2
5- Lecturer(s)		

Time table: Theory

Week No.	Title of the lectures	Hours
1	Introduction and slide preparation	2
	Development and growth of the teeth	2
2	Development and growth of the teeth	2
	Development and growth of the teeth	2

3	Root formation	2
4	Enamel	2
5	Amelogenesis	2
6	Clinical consideration in enamel	2
7	Dentine structure and land marks in dentin	2
9	Dentinogenesis	2
10	Pulp	2
	Pulp	2
11	Cementum and cementogenesis	2
	Cementum and cementogenesis	2
12	Periodontal ligament	2
	Periodontal ligament	2
13	Oral mucosa membrane	2
	Oral mucosa membrane	2
14	Maxilla, mandible and alveolar bone	2
	Maxilla, mandible and alveolar bone	2
15	Dentino-gingival junction	2
16	Salivary gland	2
	Salivary gland	2
17	Eruption of teeth	2
	Eruption of teeth	2
18	Shedding of the deciduous teeth	2
19	TMJ tempro-mandibular joints	2
20	Maxillary sinus	2
21	Histochemisty of the tissue	2
	Histochemisty of the tissue	2
Total		60

Time table: Practical

Lab number	*Laboratory 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	Temperomandibular joint	2
28	Histochemistry	2
29	Identification of glycogen in oral tissue	2
30	Uses of PAS and Alcian stain	2
Total		60

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	25%	15%	10%
Second semester	25%	15%	10%

Final examination	50%	30%	20%
Final Grade	100%	60%	40%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of Basic Science

Basic information

1- Subject title	General Physiology	
2- Subject time	Second Year	
3- Credits	6	
	Theory	Practical
4-Number of contact hours h/week	2	2
5- Lecturer(s)		

Time table: Theory

Week No.	Title of lectures	Hours
1	Cell physiology	2
2	Nerve and muscle Microanatomy of nerves	2
3	Nerves(types of nerves)	2
4	Nerve (Types of muscles)	2
5	Nervous System	2
6	Nervous System	2
7	Nervous System	2
8	Red blood cells	2
9	White blood cells	2
10	Blood groups	2
11	Blood coagulation	2
12	Cardiovascular system	2
13	Cardiovascular system	2
14	Cardiovascular system	2
15	Cardiovascular system	2
16	RESPIRATIORY SYSTEM	2
17	RESPIRATIORY SYSTEM	2
18	RESPIRATIORY SYSTEM	2
19	RENAL SYSTEM AND BODY FLUIDS	2
20	RENAL SYSTEM AND BODY FLUIDS	2
21	RENAL SYSTEM AND BODY FLUIDS	2
22	ENDOCRINE SYSTEM	2
23	ENDOCRINE SYSTEM	2
24	ENDOCRINE SYSTEM	2
25	SPECIAL SENSATION: Vision &Hearing	2
26	SPECIAL SENSATION: Vision &Hearing	2
27	ORAL CAVITY	2
28	ORAL CAVITY	2
29	GASTROINTESTINAL TRACT	2
30	GASTROINTESTINAL TRACT	2
Total		60

Time table: Practical

Week No.	Study unit title	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 Hemoglobin	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
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

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	20%	15%	5%
Second semester	20%	15%	5%
Final examination	60%	40%	20%
Final Grade	100%	70%	30%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Summary: Second Year.
Total Theories - Hours/ Week: 13
Total Theories - Hours/ year: 13x30= 390
Total Practical Hours/ Week: 21
Total Practical Hours/ year: 21x30= 630
Total Hours / Year: 1020
Total credits: 47

University of Al-Ameed / Faculty of Dentistry
Curriculum
Third Academic Year (30 weeks)

Department of Pedodontics, Orthodontics and Preventive Dentistry

Basic information

1- Subject title	Community Dentistry	
2- Subject time	Third Year	
3- Credits	4	
	Theory	Practical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

Week No.	Title of the lectures	Hours
1	Dental public health	1
2	Dental public care	1
3	epidemiology	1
4	epidemiological approach	1
5	Epidemiological studies	1
6	Experimental studies	1
7	Epidemiology of dental caries	1
8	Epidemiology of Periodontal Disease	1
9	Dental indices	1
10	Indices used for dental caries assessment	1
11	Indices used for periodontal diseases	1
12	Dental fluorosis	1
13	Biostatistics	1
14	Data presentation	1
15	Measures of central tendency & dispersion	1
16	Fluoridation as a public health measure	1
17	Fluoridation Mechanism and Effects	1
18	Occupational hazards in dentistry	1
19	Environment and health	1
20	Effects of air pollution on health	1
21	School Dental Health Program	1

22	Treatment need and demand	1
23	Dental manpower	1
24	Ethics in dentistry	1
25	Oral health care for special populations	1
26	Forensic dentistry	1
27	Dental auxiliary personal	1
28	Primary health care	1
29	Infection control	1
30	Dental health education	1
Total		30

Time table: Clinical

Week No.	Study unit title	Hours
1	Community dentistry	2
2	Patient's setting and examination	2
3	Clinical examination	2
4	Basic tooth numbering	2
5	Clinical examination	2
6	Indices	2
7	Dental caries	2
8	Theories of caries formation	2
9	Dental caries indices	2
10	Clinical examination	2
11	Clinical examination	2
12	Deciduous teeth	2
13	Clinical examination	2
14	Clinical examination	2
15	Prevention of dental caries	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

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	25%	15%	10%
Second semester	25%	15%	10%
Final examination	50%	30%	20%
Final Grade	100%	60%	40%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of Oral Diagnosis

Basic information

1- Subject title	Dental Radiology
2- Subject time	Third Year
3- Credits	4

	Theory	Practical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

Week No.	Title of the lectures	Hours
1	Fundamentals of radiology: Introduction, Similarity and differences between x-ray and visible light, component of x-ray machine.	1
2	Fundamentals of radiology: X-ray tube, Generation of x-ray, Selection of target material,	1
3	Production & interaction of X-ray: X-ray beam shape and position, Inverse square low, Rectification, Filtration, and Colimation. X-ray spectrum, half value layer, X-ray measuring units.	1
4	X-ray film & processing cycle X-ray films, intra-oral, chemical composition, film type and speed, extra-oral, screen an non screen, film properties, density, contrast, details.	1
5	Factors relating to the production of radiograph: Factors related to the radiation beam	1
6	Factors relating to the production of radiograph: Factors related to the x-ray beam	1
7	Ideal radiographic projections & artifact	1
8	Ideal radiographic projections & artifacts	1
9	Hazards & protection Ionization (direct & indirect) , tissue variability, latent period, radiation to somatic and genetic tissue	1
10	Hazards & protection 1.Protection of the patient. 2. Protection of the operator	1
11	Intraoral techniques: 1.Bisecting line angle techniques 2. Parallel technique 3. Periapical intra-oral radiography	1
12	Intraoral techniques : Bite wing projection radiography, Occlusal projection radiography	1
13	Darkroom:Size and location Construction and design Paint of the darkroom Illumination Processing equipment Film storage Testing for safe lighting	1
14	Patient's management :Patient with gagging reflex, neuromuscular problem, children, edentulous patients, physical and mental problems	1
15	Localization techniques 1.Right angle procedure 2- Tube shift technique . 3.Stereoradiography 4. .Use of radio-opaque media	1

16	Radiographic survey :Adult, children, and edentulous patients Conventional and alternative	1
17	Viewing techniques :Method of viewing (conventional and digital)	1
18	Dental panoramic radiography (principals):Theory, indications and .advantages and disadvantages ,contraindication	1
19	Dental panoramic radiography (anatomy) :Interpretation, errors and artifacts	1
20	Radiographic appearance of normal intraoral land marks: Variation in the radiographic density of structures	1
21	Maxillary and mandibular Radiographic appearance of normal :intraoral land marks Restorative materials	1
22	Radiographic appearance of common diseases of teeth & supporting structures: Dental and periodontal diseases	1
23	Radiographic appearance of common diseases of teeth & supporting structures :Teeth and bone resorption Teeth and bone fracture	1
24	Conventional and specialized Extra oral radiography	1
25	Radiographic interpretation of salivary glands	1
26	MRI :Theory, indications and contraindication, advantages and .disadvantages	1
27	TMJ Radiography (normal & pathological) :Indicated radiographical projections, interpretation and diagnosis	1
28	CT : Theory, indications and contraindication, advantages and .disadvantages	1
29	,Digital imaging system: Definition, history, components	1
	,.Types advantages and disadvantages	
30	Radiography & implantology: Indicated radiographical projections, interpretation and diagnosis	1
Total		30

Time table: Clinical

Week No.	Title of clinical requirements	Hours
1	"Fundamentals of radiology: Introduction , Similarity and differences between x-ray and visible light, component of x-ray machine". Fundamentals of radiology :X-ray tube ,Generation of x-ray, ,Selection of target material	2
2	Production & interaction of X-ray :X-ray beam shape and position, Inverse square low, Rectification, Filtration , and Colimation. X-ray spectrum, half value layer, X-ray measuring units.	2
3	X-ray film & processing cycle X-ray films, intra-oral, chemical composition, film type and speed, extra-oral , screen an non screen, film properties, density, contrast, details.	2
4	Ideal radiograph	2
5	Intraoral techniques	2

6	Factors relating to the production of radiograph	2
7	Hazards & protection	2
8	Dental panoramic radiography	2
9	Clinical work	2
10	Clinical work	2
11	Clinical work	2
12	Clinical work	2
13	Clinical work	2
14	Clinical work	2
15	Clinical work	2
16	Clinical work	2
17	Clinical work	2
18	Clinical work	2
19	Clinical work	2
20	Clinical work	2
21	Clinical work	2
22	Clinical work	2
23	Clinical work	2
24	Clinical work	2
25	Clinical work	2
26	Clinical work	2
27	Clinical work	2
28	Clinical work	2
29	Clinical work	2
30	Clinical work	2
Total		60

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	25%	15%	10%
Second semester	25%	15%	10%
Final examination	50%	30%	20%
Final Grade	100%	60%	40%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×

2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of Oral diagnosis

Basic information

1- Subject title	General Pathology	
2- Subject time	Third Year	
3- Credits	6	
	Theory	Practical
4-Number of contact hours h/week	2	2
5- Lecturer(s)		

Time table: Theory

Week No.	Title of the lectures	Hours
1	Introduction to general pathology	2
2	Reversible cell injury	2
3	Irreversible cell injury	2
4	Cell injury deposits and pigments	2
5	Cell injury deposits and pigments	2
6	Acute inflammation	2
7	Chronic inflammation	2
8	Healing and repair	2
9	Healing and repair	2
10	Infection	2
11	Infection	2

12	Disturbances of body and blood flow	2
13	Disturbances of body and blood flow	2
14	Benign neoplasms	2
15	Malignant neoplasms	2
16	Molecular basis of cancer	2
17	Immunopathology	2
18	Genetics	2
19	Genetics	2
20	Diseases of cardiovascular system	2
21	Diseases of GIT	2
22	Diseases of liver, pancreas and gall bladder	2
23	Diseases of respiratory system	2
24	Hematological diseases	2
25	Hematological diseases	2
26	Bone diseases	2
27	Bone diseases	2
28	Joints and muscles diseases	2
29	Connective tissue diseases	2
30	Seminars and clinical reviews	2
Total		60

Time table: Practical

Week No.	*Laboratory 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 in heart Power points and histopathological slides of coagulative muscles and caseous necrosis in lung	2
5	lung and Power points and histopathological slides of anthracosis of hemosiderosis in liver	2
6	histopathological slides of amyloidosis in kidney, Power points and stain E. and congo-red&H	2
7	histopathological slides of acute appendicitis Power points and ,(and lobar pneumonia (lung (appendix),acute ossteomylitis	2
8	histopathological slides of chronic cholecystits in gall Power points and osteomylitis in bone 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 osteoma 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

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	20%	15%	5%
Second semester	20%	15%	5%
Final examination	60%	40%	20%
Final Grade	100%	70%	30%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×

2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of prosthodontics /

Basic information

1- Subject title	Prosthodontics	
2- Subject time	Third Year	
3- Credits	4	
	Theory	Practical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

Week No.	Title of The Lectures	Hours
1	Introduction to Removable Partial Dentures	1
2	Terminology & Definitions	1
3	Classification of Partially Edentulous Arches	1
4	Surveying	1
5	Component parts of Removable Partial Dentures	1
6	Maxillary Major Connector	1
7	Mandibular Major Connector	1
8	Minor Connector	1
9	Rest and rest seat	1

10	Direct Retainers,	1
11	Extra Coronal Direct Retainers	1
12	Extra Coronal Direct Retainers (Continue)	1
13	Internal Attachments	1
14	Indirect retainers	1
15	Indirect retainers (Continue)	1
16	Block out & Relief	1
17	Duplication & Refractory Cast Construction	1
18	Wax Pattern	1
19	Casting, & Finishing	1
20	Denture Bases in Removable Partial Dentures	1
21	Stress Breaker	1
22	Biomechanics of Removable Partial Dentures	1
23	Biomechanics of Removable Partial Dentures (Continue)	1
24	Principles of Removable Partial Denture Design	1
25	Phases of Removable Partial Denture Treatment	1
26	Acrylic Removable Partial Dentures	1
27	Acrylic Removable Partial Dentures (Continue)	1
28	Jaw Relation in Removable Partial Dentures	1
29	Repairs and Additions to Removable Partial Dentures	1
30	Special Impression Techniques for Removable Partial Denture (altered cast techniques…etc.)	1
Total		30

Time table: Practical

Week No.	Study unit title	Hours
1	Introduction to Removable Partial Dentures	4
2	Kennedy Classification	4
3	Cast Trimming	4
4	Surveying	4
5	Surveying	4
6	Wire Bending	4
7	Wire Bending	4
8	Acrylic Removable Partial Denture Design	4
9	Acrylic Removable Partial Denture Laboratory Procedures	4
10	Acrylic Removable Partial Denture Laboratory Procedures	4
11	Flexible Partial Denture Design	4
12	Flexible Partial Denture Laboratory Procedures	4
13	Flexible Partial Denture Laboratory Procedures	4
14	Flexible Partial Denture Laboratory Procedures	4
15	Principles of 2D Design for the Removable Partial Denture s	4
16	Principles of 2D Design for the Removable Partial Denture s	4

17	Principles of Drawing 2D Design for the Removable Partial Dentures	4
18	2D Design for Mandibular & Maxillary Arches	4
19	2D Design for Mandibular & Maxillary Arches	4
20	2D Design for Mandibular & Maxillary Arches	4
21	Drawing Removable Partial Denture 3D Design & CAD/CAM	4
22	Drawing Removable Partial Denture 3D Design & CAD/CAM	4
23	Types of Rests	4
24	Rest Seat Preparation	4
25	Block Out and Relief	4
26	Block Out and Relief	4
27	Duplication Of the Master Cast	4
28	Wax Pattern for the Removable Partial Denture Framework	4
29	Wax Pattern for the Removable Partial Denture Framework	4
30	Framework Fabrication	4
Total		120

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	25%	15%	10%
Second semester	25%	15%	10%
Final examination	50%	30%	20%
Final Grade	100%	60%	40%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×

7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of Oral & Maxillofacial Surgery

Basic information

1- Subject title	Oral Surgery	
2- Subject time	Third Year	
3- Credits	4	
	Theory	Practical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

Week No.	Title of lectures	Hours
1	Diagnosis in oral surgery	1
2	Diagnosis in oral surgery	1
3	Extraction of teeth	1
4	Extraction of teeth	1
5	Contraindications of Exodontia	1
6	Contraindications of Exodontia	1
7	General arrangement for extraction	1
8	Dental forceps	1
9	Dental forceps	1
10	Elevators	1
11	Elevators	1
12	Technique of forceps extraction	1
13	Technique of forceps extraction	1
14	Complications of teeth extraction	1
15	Complications of teeth extraction	1
16	Complications of teeth extraction	1
17	Basic surgical instruments	1
18	Basic surgical instruments	1

19	Basic surgical instruments	1
20	Local anesthesia: Introduction	1
21	Pharmacology of local anesthesia	1
22	Pharmacology of local anesthesia	1
23	Surgical anatomy in local anesthesia	1
24	Instruments of local anesthesia	1
25	Techniques of local anesthesia	1
26	Techniques of local anesthesia	1
27	Techniques of local anesthesia	1
28	Complications of local anesthesia	1
29	Complications of local anesthesia	1
30	Complications of local anesthesia	1
Total		30

Week 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 anesthesia (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 anesthesia (surgical), (anatomy)	2
24	Local anesthesia equipment.	2
25	Local anesthesia techniques (infiltration).	2

26	Local anesthesia techniques (block).	2
27	Local anesthesia techniques (discussion).	2
28	Complication of local anesthesia	2
29	Complication of extraction.	2
30	Examination	2
Total		60

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	25%	15%	10%
Second semester	25%	15%	10%
Final examination	50%	30%	20%
Final Grade	100%	60%	40%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of Basic Science

Basic information

1- Subject title	Pharmacology
2- Subject time	Third Year

3- Credits	6	
	Theory	Practical
4-Number of contact hours h/week	2	2
5- Lecturer(s)		

Time table: Theory

Number	Title of lecture	Hours
1	General Pharmacology	2
2	Pharmacokinetics and pharmacodynamic	2
3	Cholinergic drugs (agonist and antagonist)	2
4	Adrenegic drugs (agonist)	2
5	Adrenegic drugs (antagonist)	2
6	Management of hypertension	2
7	Management of angina and Heart failure	2
8	Management of arrhythmias	2
9	Management of hyperlipidemias	2
10	Management of hyperglycemia	2
11	Antianxiety and Hypnotics drugs	2
12	Antipsychotic, antidepressants and antiepileptic medications	2
13	Narcotic analgesics	2
14	Local and General anesthetics	2
15	NSAIDs and prostaglandins	2
16	Gout and slow action anti-inflammatory drugs	2
17	Antimicrobial drugs, penicillin's, cephalosporin, microlids and quinolones	2
18	Antimycobacterial and antiprotozoal drugs	2
19	Antifungal and antiviral	2
20	Anticancer drugs	2
21	Anticaries and drugs used in dental plaque	2
22	Antihistamine and serotonin	2
23	Drugs acting on respiratory system	2
24	Corticosteroids	2
25	Drugs acting on GIT and vomiting management	2
26	diuretics	2
27	Thyroid hormones and antithyroid drugs	2
28	Anticoagulants and antianemic medications	2
29	Sex hormones and contraceptive drugs	2
30	Herbal medicine and toxicology	2
Total		60

Time table: Practical

Week No.	Study unit title	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
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 Anesthesia	2
21	Local Anesthesia	2
22	General Anesthesia	2
23	General Anesthesia	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

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	20%	15%	5%

Second semester	20%	15%	5%
Final examination	60%	40%	20%
Final Grade	100%	70%	30%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department of Basic Science

Basic information

1- Subject title	Microbiology
2- Subject time	Third Year
3- Credits	6

	Theory	Practical
4-Number of contact hours h/week	2	2
5- Lecturer(s)		

Time table: Theory

Week No.	Title of the lectures	Hours
1	Morphology and Ultra-structures of M.Os: Eukaryotic Vs Prokaryotic cells:	2
2	Physiology and metabolism of M.O.	2
3	Sterilization	2
4	Antibiotic and Chemotherapy	2
5	Immunology(part1)	2
6	Immunology(part2)	2
7	Immunology(part3)	2
8	Immunology(part4)	2
9	The streptococci	2
10	The staphylococci	2
11	Neisseria	2
12	*Corynebacterium*: *C. diphtheriae*&Diphtheriodes and Lactobacillus	2
13	*Bacillus*	2
14	*Clostridium*	2
15	*Mycobacterium*	2
16	Enterbacteriaceae(part1)	2
17	Enterbacteriaceae(part2)	2
18	Fusiform	2
19	Spiochaetes	2
20	*Actinomyces* and other Filamentous bacteria:	2
21	Aggregatibacter	2
22	Miscellaneous micro-organism	2
23	Ecology of the oral flora	2
24	Host- parasite relationship	2
25	Ecology of the oral flora	2
26	Dental plaque and dental caries:	2
27	Virology(part 1)	2
28	Virology(part2)	2
29	Virology(part3)	2
30	Oral mycology & Parasitology:	2
Total		60

Time table: Practical

Week No.	Study unit title	Hours
1	Orientation to the Microbiology laboratory	2
2	The microscope	2
3	Sterilisation and disinfection:	2
4	Bacterial growth	2
5	Types of culture media	2
6	Sampling and transport of test material	2
7	Laboratory cultivation of microorganisms	2
8	Bacterial identification:1-Macroscopical characteristics (colonial morphology and cultural characteristics).	2
9	2. Microscopical examination (morphology of bacterial cells).	2
10	Staining	2
11	Biochemical tests (part 1).	2
12	Biochemical tests(part2).	2
13	Biochemical tests(part3).	2
14	Antibiotic sensitivity test(part 1).	2
15	Antibiotic sensitivity test(part 2).	2
16	Serological tests (antigen and antibody detection tests) (part 1).	2
17	Serological tests (antigen and antibody detection tests) (part 2).	2
18	Nucleic acid assays, Animal pathogenicity test	2
19	Staphylococci	2
20	Streptococci	2
21	Corynebacterium	2
22	Spore-forming Gram-positive bacilli: Bacillus spp.	2
23	Clostridium spp.	2
24	Mycobacterium spp.	2
25	Enterobacteriaceae (part1)	2
26	Enterobacteriaceae (part2)	2
27	Enterobacteriaceae(part3)	2
28	Neisseriae spp.	2
29	Virology	2
30	Mycology	2
Total		60

Grading system

	Percentage of grade	Grade distribution	
		Theory	Practical
First semester	20%	15%	5%
Second semester	20%	15%	5%

Final examination	60%	40%	20%
Final Grade	100%	70%	30%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	No ×
6	Video and audio media equipment	Yes √	No ×
7	Others (specify)	Wireless microphone and 2 speakers	No ×

Department Of Restorative Dentistry

Basic information

1- Subject title	Preclinical Operative Dentistry Fixed Prosthodontics	
2- Subject time	Fourth Year	
3- Credits	8	
	Theory	Practical
4-Number of contact hours h/week	2	4
5- Lecturer(s)		

Time table: Theory

Week No.	Title of the lectures / Preclinical Operative Dentistry	Hours
1	Definition of operative dentistry	2
2	Instruments and general instrumentation of cavity preparation	2
3	Sterilization of operative instruments	2
4	Amalgam cavity preparations for class I	2
5	Amalgam cavity preparations for class II	2
6	Amalgam cavity preparations for class II (MOD)	2
7	Amalgam cavity preparations for class III and class V	2
8	Cavity liners and cement bases (part 1)	2
9	Cavity liners and cement bases (part 2)	2
10	Dental amalgam alloys (material)	2
11	Complex amalgam restoration	2
12	Failures in amalgam restorations	2
13	Tooth colored restorations (composite)	2
14	Cavity preparation for anterior restorations	2
15	Resin material	2
Total		30

Number	Title of the lectures Preclinical Fixed Prosthodontics	Hours
1	Definitions	2
2	Biomechanical principles of tooth preparation	2
3	Biomechanical principles of tooth preparation	2
4	Full metal crown	2
5	Porcelain fused to metal crown	2
6	Complete ceramic crown (Porcelain Jacket Crown)	2

7	Partial veneer crown (three-quarter crown)	2
8	Post crown	2
9	Impression for crown and bridge work	2
10	Impression for crown and bridge work	2
11	Provisional restoration	2
12	Working cast and dies	2
13	Waxing, investing, casting	2
14	Finishing of the casting and clinical try-in	2
15	Cementation	2
Total		30

Time table: Practical

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

11	Demonstration amalgam CL II MOD cavity for lower 1st molar	2
12	Demonstration amalgam CL II MOD cavity for upper 2nd molar	2
13	Practical assessment for the students in cavity preparation of amalgam CL II MOD cavity on lower 2nd molar.	2
14	Demonstration amalgam CL V cavity for lower 2nd premolar, upper 1st molar and upper 2nd premolar.	2
15	Demonstration amalgam CL III cavity in distal side of upper canine.	2
16	Demonstration of the liner and base placement, their indication, advantage, and uses.	2
17	Supervised students in mixing and placing zinc phosphate cement in CL 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 lower 2nd premolar.	2
26	Preparation of CL III composite cavity on upper central incisor with composite filling placement (light cure)	2
27	Preparation of CL III composite cavity on upper lateral incisor with composite filling placement (light cure	2
28	Preparation of CL V composite cavity on upper central incisor with composite filling placement (light cure).	2
29	Final practical assessment.	2
30	Finishing and evaluation of the practical work.	2
Total		60

Laboratory sessions

Lab number	Study unit title 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
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

Grading system concerning laboratories

Number	Assessment system	Score distribution Preclinical Operative Dentistry	Score distribution Preclinical Fixed Prosthodontics
1	Quizzes	2%	2%
2	Practical Assessment	10%	6%
3	Mid year	15%	15%

4	Final examination (practical)	12%	8%
5	Final examination (theory)	15%	15%
Total		54%	46%

Fixed Prosthodontics is taken with Operative Dentistry in the 3rd stage and the grading system is 46% for Fixed Prosthodontics and 54% for Operative Dentistry.

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments	Yes √	
7	Others (specify)		

Summary: Third Year.
Total Theories - Hours/ Week: 12
Total Theories - Hours/ year: 12x30= 360
Total Practical Hours/ Week: 18
Total Practical Hours/ year: 18x30= 540
Total Hours / Year: 900
Total credits: 42

University of Al-Ameed / Faculty of Dentistry
Curriculum
Fourth Calendar Year (38 weeks)

Department of Oral & Maxillofacial Surgery

Basic information

1- Subject title	Anatomy	
2- Subject time	Fourth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	General Medicine	
2-Number of credits	Theory:2	Laboratory: 2.5
3-Number of contact hours	Theory:1h/wk	Clinic:2.5h/wk.
4-Subject time	Fourth Year	

No.	Title of the lectures	Hours
1	Systemic hypertension	1
2	Ischemic heart disease	1
3	Ischemic heart disease	1
4	Hematemisis	1
5	Rheumatic fever	1
6	Infective endocarditis	1
7	Infective endocarditis	1
8	Diseases of the heart valves	1
9	Diseases of the heart valves	1
10	Hemorrhagic diseases	1
11	Hemorrhagic diseases	1
12	Anemia	1
13	Anemia	1
14	Hemolytic anemia	1
15	Erythrocytosis and polycythemia	1
16	Leukemia	1
17	Esophagitis	1

18	Acute abdomen	1
19	Diabetes mellitus	1
20	Tuberculosis	1
21	Elementary tract diseases	1
22	Bronchial asthma	1
23	Peptic ulcer	1
24	Peptic ulcer	1
25	Jaundice	1
26	Jaundice	1
27	Diarrhea and constipation	1
28	GIT bleeding and hepatic disorders	1
29	Congestive heart failure	1
30	Congestive heart failure	1
Total		30

Clinical sessions

Lab number	Study unit title	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
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

The grading system

Number	Assessment measurement	Score distribution
1	First semester 12.5%	Written 12.5%
2	Mid year examination (25%)	Written 25%
3	Second semester 12.5%	Written 12.5%
4	Final examination (50%)	Written 50%
Total	100%	100%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipment		No ×
7	Others (specify)		No ×

Department of Oral & Maxillofacial Surgery

Basic information

1- Subject title	Anatomy	
2- Subject time	Fourth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	General Surgery	
2-Number of credits	Theory:2	Clinical:2.5
3-Number of contact hours	Theory:1h/week	Clinic:2.5 h/week
4-Subject time	Fourth Year	

No.	Title of the lectures	Hours
1	Case History	1
2	Clinical Examination	1
3	Surgical wounds & infections	1
4	Surgical wounds & infections	1
5	Wound healing	1
6	Wound healing	1
7	Hemorrhage & Blood transfusion	1
8	Hemorrhage & Blood transfusion	1
9	Fractures & dislocations of bones	1
10	Fractures & dislocations of bones	1
11	Head injuries	1
12	Parentral feeding	1
13	Parentral feeding	1
14	Fluid & electrolytes balance	1
15	Fluid & electrolytes balance	1
16	Surgical resuscitation	1
17	Surgical resuscitation	1
18	Differential diagnosis of neck swellings	1
19	Differential diagnosis of neck swellings	1

20	Diseases of Nose & paranasal sinuses	1
21	Diseases of Nose & paranasal sinuses	1
22	Diseases of pharynx and larynx	1
23	Diseases of pharynx and larynx	1
24	General anesthesia & pain management	1
25	General anesthesia & pain management	1
26	Chest trauma	1
27	Chest trauma	1
28	Goiter	1
29	Goiter	1
30	Tumors	1
Total		30

Clinical sessions

Lab number	Study unit title	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

The grading system

Number	Assessment measurement		Score distribution
1	First semester	(12.5%)	Written 7.5% + clinical 5%
2	Mid year examination	(25%)	Written 25%
3	Second semester	(12.5%)	Written 7.5% + clinical 5%
4	Final examination	(50%)	Written 50%
Total	100%		(Theory 90%+ Clinical 10%)

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments	Yes √	
7	Others (specify)		No ×

Department of Oral diagnosis

Basic information

1- Subject title	Anatomy	
2- Subject time	Fourth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Oral Pathology	
2-Number of credits	Theory:4	Laboratory:3
3-Number of contact hours	Theory:2h/week	Laboratory:3h/week
4-Subject time	Fourth Year	

No.	Title of the lectures	Hours
1	introduction and Principles of biopsy techniques	2
2	Dental caries	2
3	Pulp pathology	2
4	Periapical pathology	2
5	Bone infection	2
6	Bone diseases (Genetic diseases, metabolic diseases; fibro-osseous lesions)	2
7	Bone diseases (Genetic diseases, metabolic diseases; fibro-osseous lesions)	2
8	Bone neoplasms	2
9	Bone neoplasms	2
10	Developmental disturbances	2
11	Developmental disturbances	2
12	Developmental disturbances	2
13	Developmental disturbances	2
14	Odontogenetic tumors and cysts	2
15	Odontogenetic tumors and cysts	2
16	Oral mucosal lesions and Infection	2

17	Oral mucosal lesions and Infection	2
18	Oral mucosal lesions and Infection	2
19	Red and White lesions	2
20	Pigmented lesion	2
21	Vesiculo-bulbous lesions and ulcerative lesions	2
22	Vesiculo-bulbous lesions and ulcerative lesions	2
23	Oral epithelial lesions and Tumors	2
24	Oral epithelial lesions and Tumors	2
25	connective tissue tumors	2
26	connective tissue tumors	2
27	Diseases of Salivary glands	2
28	Tumors of Salivary glands	2
29	TMJ pathology and osseointegration	2
30	Forensic pathology	2
Total		60

Laboratory sessions

Lab number	Study unit title	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
5	Acute and chronic osteomyelitis and squestrum	3
6	fibroma Pagets disease, GCG, Fibrous dysplasia and ossifying	3
7	fibroma Pagets disease, GCG, Fibrous dysplasia and ossifying	3
8	Osteoma, osteosarcoma, chondrosarcoma, Burkitts lymphoma,eosinophilia granuloma	3
9	Osteoma, osteosarcoma, chondrosarcoma, Burkitts lymphoma,eosinophilia granuloma	3
10	Data show	3
11	Data show	3
12	calcifying odontogentic cyst and ,Dentigerous cyst, kertatocyst cyst eruption	3
13	Ameloblastoma,adenomatoid odontogenic tumor and odontoma	3
14	,leukoplakia ,Lichen planus	3
15	data show	3
16	data show	3
17	data show	3
18	data show	3
19	Pemphigus vulgaris and data show	3
20	Pemphigus vulgaris and data show	3

21	cell Epithelial dysplasia, squamous cell papilloma, squamous carcinoma	3
22	cell Epithelial dysplasia, squamous cell papilloma, squamous carcinoma	3
23	Fibroma, hemangioma and lymphangioma	3
24	Fibroma, hemangioma, pyogenic granuloma and lymphangioma	3
25	Mucocele and data show	3
26	data show	3
27	pleomorphic adenoma and mucoepidermoid carcinoma	3
28	pleomorphic adenoma and mucoepidermoid carcinoma	3
29	Data show	3
30	Data show	3
Total		90

The grading system

Number	Assessment measurement	Score distribution
1	1st and 2nd semester (25%)	First quiz 10% Second quiz 10% Laboratory quiz 5%
2	Mid year examination (25%)	Written examination 25%
3	Final examination (50%)	Laboratory quiz 15% Written examination 35%
Total	100%	100%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	
6	Video and audio media equipments		No ×
7	Others (specify)	Yes	

Department of Oral & Maxillofacial Surgery

Basic information

1- Subject title	Anatomy	
2- Subject time	Fourth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Oral Surgery	
2-Number of credits	Theory:2	Clinical:5
3-Number of contact hours	Theory:1h/wk.	Clinic:5h/wk.
4-Subject time	Fourth Year	

No.	Title of the lectures	Hours
1	Dental pain	1
2	Cardiovascular diseases	1
3	Cardiovascular diseases	1
4	Cardiovascular diseases	1
5	Bleeding disorders	1
6	Bleeding disorders	1
7	Blood dyscrasias	1
8	Thyroid diseases	1
9	Adrenal insufficiency	1
10	Diabetes mellitus	1
11	Pulmonary diseases	1
12	Arthritis	1
13	Allergy	1
14	Renal diseases	1
15	Liver diseases	1
16	C.N.S. diseases	1
17	Pregnancy	1
18	AIDS	1
19	Management of patients receiving chemotherapy & radiotherapy	1

20	Intraoral incisions, flaps and suturing	1
21	Intraoral incisions, flaps and suturing	1
22	Principles of management of impacted teeth	1
23	Principles of management of impacted teeth	1
24	Pyogenic infections	1
25	Pyogenic infections	1
26	Pyogenic infections	1
27	Inflammatory diseases of bone	1
28	Inflammatory diseases of bone	1
29	Complications of exodontia	1
30	Complications of exodontia	1
Total		30

Clinical requirement

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

The grading system

Number	Assessment measurement	Score distribution
1	First semester (7.5%)	Written 5%+ seminar 1.5% + quiz 1%
2	Mid year examination (25%)	Written 25%
3	Second semester (7.5%)	Written 5%+ seminar 1.5% + quiz 1%
4	Requirements & clinical exam 10%	Requirements 5% + clinical exam 5%
5	Final examination (50%)	Written 30% + oral 20%
Total	100%	100%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments		No ×
7	Others (specify)		No ×

Department of Orthodontics

Basic information

1- Subject title	Anatomy	
2- Subject time	Fourth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Orthodontics	
2-Number of credits	Theory:2	Laboratory:5
3-Number of contact hours	Theory:1 h/wk.	Laboratory:5 h/wk
4-Subject time	Fourth Year	

No.	Title of the lectures	Hours
1	<u>Introduction</u> Definition of orthodontics Definition of occlusion, normal occlusion, ideal occlusion and malocclusion Six keys of normal occlusion	1
2	Aims of orthodontic treatment Orthodontic definitions (overjet, overbite, crossbite, spacing, crowding, midline deviation, rotation, displacement, proclination, retroclination, protrusion, retrusion, imbrication, overlap, impaction) – including types	1
3	Classification of malocclusion a. Angle's classification including division and subdivisions	1
4	b. molar, canine, incisor classifications c. classification of deciduous and mixed dentitions	1
5	<u>Growth and development</u> Definitions of growth, development and maturity Stages of development (ovum till birth) Theories of bone growth (cartiligeneous, sutural, endosteal-periosteal, matrix theories)	1
6	Definitions of growth site, growth center, displacement, and drift Growth curve and maximum growth spurt	1

7	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	1
8	Developmental anomalies Jaw rotation and adaptation	1
9	Deciduous and permanent dentition Stages of tooth development: Formation, calcification and root completion	1
10	Tooth eruption (stages and theories) Sequences and timing of eruption	1
11	Development of occlusion a. new born oral cavity (relationship of gum pads, neonatal jaw relationships, natal and neonatal teeth) b. Deciduous dentition stage - Dental changes till 6 years of age (jaw relationship, attrition, primary spaces)	1
12	c. Early mixed dentition stage - eruption of first molars and incisors (occlusal relationships of primary and permanent molars, early mesial shift, ugly duckling stage, secondary spaces) d. Late mixed dentition stage - eruption of canines and premolars (Leeway space and late mesial shift) e. Permanent dentition - eruption second and third molars (mesial migration)	1
13	Etiology of malocclusion: 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)	1
14	ii. Soft tissue (muscles of face and mastication, muscles of lip and tongue, relation to skeletal factors, abnormalities of oro-facial musculature, interference with soft tissue function) iii. Tooth size and arch length relationship (Crowding and spacing) including types	1
15	b. Local factors: i. Extra-teeth (supernumerary) and missing teeth (hypodontia) ii. Anomalies of tooth size and shape	1
16	iii. Early loss of deciduous teeth iv. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis	1
17	v. Abnormal eruptive behavior (displacement, transposition) vi. Large frenum (labial and lingual), periodontal diseases	1
18	vii. Oral habits viii. Dental caries, improper dental restoration	1

19	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)	1
20	b. Biomechanics i. Force (application, type, magnitude, duration and direction) ii. Center of resistance and rotation, moment of force and moment of couple.	1
21	iii. Types of tooth movement iv. Rate of tooth movement and factors affecting it	1
22	Orthodontic appliances a. Overview: i. passive orthodontic appliances (habit breaker, retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination)	1
23	b. Removable Orthodontic Appliance: i. Properties of various components (SS wire, acrylic) ii. Components: 1) active components (springs, screws and elastics)	1
24	2) retentive components (clasps) 3) acrylic base plate and bite planes 4) anchorage	1
25	iii. Design of a removable orthodontic appliance iv. Construction of a removable orthodontic appliance	1
26	v. Soldering and welding vi. Post-insertion instructions and guidelines	1
27	c. Fixed orthodontic appliance: Types, components, advantages, limitation, biomechanics, banding vs. bonding	1
28	Use of extra-oral anchorage, temporary anchorage devices (TADs), and lingual fixed appliance	1
29	d. Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action e. Other active appliances: combination appliances, Invisalign	1
30	f. Retention and retainers Retention (definition, reason, time) Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)	1
Total		30

Clinical requirements

Lab number	Study unit title	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 1st Molar	5
19	Adams' Clasps on Upper Left 1st Molar	5
20	Adams' Clasps on Upper Right 1st Premolar	5
21	Double Adams' Clasps on Upper Right 2nd premolar &1st molar	5
22	Review	5
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

Every laboratory work include the following:
1-Presentation of figure.
2-Demonstration done by teaching staff
3-Wire bending done by the student.
4-Assessment of the figure.
The grading system

Number	Assessment measurement	Score distribution
1	First semester (laboratory & quarterly quiz, Clinical requirement and attendance)	12.5%
2	Mid year examination	25%
3	Second semester (laboratory & quarterly quiz, Clinical requirement and attendance)	12.5%
4	Final examination	50%
Total		100%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	
6	Video and audio media equipments	Yes √	
7	Others (specify)		No ×

Department of pedodontics and preventive dentistry

Basic information

1- Subject title	Anatomy	
2- Subject time	Fourth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Pediatric Dentistry	
2-Number of credits	Theory:2	Clinical:0
3-Number of contact hours	Theory:1h/wk.	Clinic:0
4-Subject time	Fourth Year	

No.	Title of the lectures	Hours
1	Eruption of teeth , normal eruption process ,variation in sequences of eruption	1

2	Lingual eruption of mandibular permanent incisors, Teething and difficult eruption, Interval of rest	1
3	Eruption hematoma , sequestrum ,ectopic eruption , Natal and neonatal teeth , Local factors influence eruption	1
4	Epstein pearls, Bohn nodules, Dental lamina cysts, Shedding of the primary teeth, Mechanism of resorption and shedding, Factors causes differences in time of eruption, local factors influence time of eruption	1
5	Systemic (disease) Factors which cause late eruption Deciduous Dentition Period, Ugly Duckling Stage	1
6	Morphology of the primary teeth, early development and calcification of teeth	1
7	Normal morphology of all primary teeth and anatomy of their pulp and their clinical consideration	1
8	Morphologic differences between primary and permanent teeth, features of deciduous crowns, pulp and roots	1
9	Functions of primary teeth, clinical consideration	1
10	Dental Caries in the Child and Adolescent, Etiology of dental caries, Progression of the disease, Arrested lesions	1
11	Additional factors known to influence dental caries , rampant dental caries, Early childhood caries, causes, clinical appearance.	1
12	Control of all active carious lesions, reduction in the intake of freely fermentable carbohydrates	1
13	Classification of sugars, dietary counseling, analysis and advice, Sugary medicines.	1
14	Reduction of dental plaque, use of fluorides, Topical Fluorides in the Dental Office.	1
15	Restorative dentistry for children, Structural differences between deciduous and permanent teeth, isolation & maintenance of dry field and application of the rubber dam.	1
16	Cavity preparation in primary teeth, incipient class I cavity in a very young child, deep seated class I cavity, class II cavity.	1
17	Matrix band classification, Class *III* cavity, modified class *III* cavity preparation, esthetic resin restoration.	1
18	Stainless steel crowns, SSC for posterior teeth: indications, advantages, preparation of the tooth, contouring of the crown.	1
19	Atraumatic restorative treatment(ART), Indications and Contra-Indications, instru ments and materials essential for ART.	1
20	Treatment of deep caries Diagnosis aids in the selection of teeth for pulp therapy	1
21	Indirect pulp treatment و Vital pulp therapy	1
22	Pulpotomy	1
23	Anesthetizing mandibular and maxillary teeth and soft tissue	1
24	complications after a local anesthetic	1

25	supplemental injection techniques	1
26	Oral surgery for children, indication and contraindications for extraction of primary teeth, indications for extraction of permanent first molars	1
27	technique for extraction of primary teeth	1
28	extraction complications	1
29	postoperative extraction complications, radiographic survey of teeth extracted	1
30	Infections manifestation and management	1
Total		30

The grading system

Number	Assessment measurement	Score distribution
1	First semester	12.5%
2	Mid year examination	25%
3	Second semester	12.5%
4	Final examination	50%
Total		100%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments		No ×
7	Others (specify)		No ×

Department of periodontology

Basic information

1- Subject title	Anatomy	
2- Subject time	Fourth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2

5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Periodontics	
2-Number of credits	Theory:2	Clinical:2.5
3-Number of contact hours	Theory:1h/wk	Clinic:2.5h/wk
4-Subject time	Fourth year	

No.	Lectures	Hours
1	Terms & definitions frequently used in periodontology	1
2	Histology of periodontium: gingiva	1
3	gingiva	1
4	periodontal ligaments	1
5	alveolar bone	1
6	cementum	1
7	Classification of periodontal diseases: -Gingivitis, plaque and non plaque induced gingivitis -Gingivitis modified by other factors	1
8	chronic and aggressive periodontitis	1
9	-acute periodontal conditions (pericoronitis, periodontal abscess, ANUG and ANUP) -perio-endo lesion	1
10	Etiology of periodontal disease and risk factors	1
11	Etiology of periodontal disease and risk factors	1
12	Microbial dental plaque	1
13	Microbial dental plaque	1
14	Dental calculus &tooth stain	1
15	Dental calculus &tooth stain	1
16	Pathogenesis of periodontal diseases	1
17	Pathogenesis of periodontal diseases	1
18	Cross infection	1
19	Periodontal indices	1
20	Treatment plan: Introduction	1
21	cause related phase	1
22	corrective phase (surgical)	1

23	gingivectomy and crown lengthening procedures	1
24	periodontal flaps and mucogingival surgeries	1
25	Regenerative periodontal surgeries(GTR,GBR)	1
26	Regenerative periodontal surgeries(GTR,GBR)	1
27	maintenance phase	1
28	Periodontal instruments and sharpening	1
29	Periodontal diseases prevention and diet	1
30	Medications frequently used in periodontology	1
Total		30

Clinical requirement

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

The grading system

Number	Assessment Measurement	Score distribution
1	First & second semester (25%)	20% Clinical requirement 5%(attendance/quizzes/seminars/behavior)
2	Mid year examination (25%)	25% written exam
3	Final examination (50%)	15% Practical exam 35% written exam
Total	100%	100 %

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	
6	Video and audio media equipments		No ×
7	Others (specify)		No ×

Department of prosthodontics

Basic information

1- Subject title	Anatomy	
2- Subject time	Fourth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Prosthodontics	
2-Number of credits	Theory:2	Clinical:2.5
3-Number of contact hours	Theory:1h/ wk.	Clinic: 2.5h/ wk.
4-Subject time	Fourth Year	

No.	Title Of The Lectures	Hours
1	Anatomical land mark: Osteology	1
2	Anatomical land mark: Myology	1
3	Diagnosis and treatment plan for RPD	1
4	Diagnosis and treatment plan for RPD	1
5	Mouth preparation and abutment tooth preparation	1
6	Mouth preparation and abutment tooth preparation	1
7	Impression materials and techniques for RPD	1
8	Impression materials and techniques for RPD	1
9	Support in FEE RPD and metal check	1
10	Support in FEE RPD and metal check	1
11	Occlusion in RPD	1
12	Jaw relation in RPD	1
13	Prep-prosthetic surgery	1
14	Prep-prosthetic surgery	1
15	Diagnosis and treatment plan in CD	1
16	Diagnosis and treatment plan in CD	1
17	Impression in CD	1
18	Impression in CD	1
19	TMJ and mandibular movement	1

20	TMJ and mandibular movement	1
21	Jaw relation in CD: vertical relation	1
22	Jaw relation in CD: horizontal relation	1
23	Try in stage in CD	1
24	Try in stage in CD	1
25	Insertion of CD	1
26	Adjustments of CD	1
27	relining and rebasing	1
28	relining and rebasing	1
29	Repair and addition of tooth in RPD	1
30	Differences between two main types of RPD	1
Total		30

Clinical requirements

Lab number	Study unit title
1	3 acrylic RPD (free end extension).
2	2 acrylic RPD (bounded saddles).
3	1 immediate or flexible RPD.
4	1 case repair.
Total	75 h/ year

The grading system

Number	Assessment measurement	Score distribution
1	First semester (12.5%)	Theory (1%) clinical (11.5%)
2	Midyear examination (25%)	Theory (25%)
3	Second semester (12.5%)	Theory (1%) clinical (11.5%)
4	Final examination (50%)	Theory (30%) clinical (20%)
Total	100%	100%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector		No ×
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×

6	Video and audio media equipments	Yes √	
7	Others (specify)	Samples and specimens	

Department Of Restorative Dentistry/

Basic information

1- Subject title	Anatomy	
2- Subject time	Fourth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A-Basic information

1-Subject title	- Operative and esthetic dentistry & endodontics	
2-Number of credits	Theory:2	Clinical:5
3-Number of contact hours	Theory:-Operative: 22h/year Endodontic:8h/year One hour/ wk	Laboratory/2.5h/wk. Clinic:2.5h/wk.
4-Subject time	Fourth Year	

Operative and Aesthetic Dentistry

Number	Title of the lectures	Hours
1	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry.	1
2	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry.	1
3	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry	1
4	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry	1
5	Patient Evaluation , Diagnosis & Treatment Planning	1
6	Caries Management (Diagnosis & treatment strategies)	1
7	Cervical Lesions(carious and non carious lesions)	1
8	Restorative Dentistry and Pulpal Health	1
9	Management of Deep Seated Caries	1
10	Inflammatory Conditions of the Pulp	1
11	- Treatment of Deep Seated CariesSimplified anatomical modeling.	1

12	Fluoride – Releasing Materials	1
13	Indirect aesthetic adhesive restorations Inlays and Onlays (materials ,techniques) CAD/CAM Technology.	1
14	Direct tooth-colored restorations(Composite)	1
15	Dental Laser	1
16	Application of Laser in Conservative Dentistry.	1
17	Application of Laser in Conservative Dentistry.	1
18	Indirect tooth-colored restorations	1
19	Techniques of posterior composite Inlay/Onlay restoration system Laboratory-processed composite inlays and onlays.	1
20	Ceramic veneers, inlays and onlays, clinical procedures.	1
21	Ceramic veneers, inlays and onlays, clinical procedures.	1
22	CAD/CAM techniques	1
Total		22

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

Clinical Requirements

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

Clinical requirements (Preclinical Endodontic)

Lab number	Study unit title	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 6 7	Quiz 2 in lab 4 +Clinical access opening to one anterior tooth and two premolar teeth	2.5 2.5 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 12 13 14	Quiz 4 in lab 11 + clinical working length estimation on the same three teeth .	2.5 2.5 2.5 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 20 21 22 23	Quiz 6 in lab 18 + clinical instrumentation to the same teeth	2.5 2.5 2.5 2.5 2.5
24	Root canal obturation.	2.5
25 26 27	Quiz 7 in lab 24 +clinical obturation to three teeth.	2.5 2.5 2.5
28 29 30	Review	2.5 2.5 2.5
Total		75

The grading system

Number	Assessment measurement	Score distribution Operative	Score distribution Preclinical Endodontics
1	Clinical Requirements 25%	19%	6%
2	Mid year examination (25%)	15%	10%
3	Final examination (50%) 25% theory 25% clinical	30%	20%
Total	100%	64%	36%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail	Yes √	
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×

6	Video and audio media equipments		No ×
7	Others (specify)		

Fourth year Summer Training (8 weeks)

Number	Subject	Theory (hours/week)	Practical (hours/week)	Total Theory	Total Practical
1	Oral surgery	1	4	8	32
2	Oral pathology	1	4	8	32
3	prosthodontics	1	4	8	32
4	Restorative dentistry	1	4	8	32
5	Periodontics	1	2	8	16
6	Orthodontics	1	2	8	16
Total		6	20	48	160

Total hours:208

Summary: Fourth Year.
Total Theories - Hours/ Week: 10
Total Theories - Hours/ year: 10x30= 300
Total Practical Hours/ Week: 28
Total Practical Hours/ year: 28x30= 840
Total Hours / Year: 1140
Total credits: 48

Total Hours / Year with summer training: 1140+208=1348

University of Al-Ameed / Faculty of Dentistry
Curriculum
Fifth Calendar Year (38 weeks)

Department of Prosthodontics

Basic information

1- Subject title	Anatomy	
2- Subject time	Fifth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Prosthodontics	
2-Number of credits	Theory: 2	Clinical: 5
3-Number of contact hours	Theory:1h/wk.	Clinic: 5h/wk.
4-Subject time	Fifth Year	

No.	Title of The Lectures	Hours
1	Occlusion in Complete Denture	1
2	Occlusion in Complete Denture (Continue)	1
3	Retention, Stability And Support	1
4	Retention, Stability And Support (Continue)	1
5	Post Insertion Problems	1
6	Post Insertion Problems (Continue)	1
7	Complications Of Complete Denture	1
8	Complications Of Complete Denture (Continue)	1
9	Immediate Denture	1
10	Immediate Denture (Continue)	1
11	Classification system for completely edentulous patients	1
12	Classification system for completely edentulous patients(continue)	1
13	Posterior palatal seal area	1
14	Single CD	1
15	Single CD (Continue)	1

16	Geriatric dentistry	1
17	Maxillofacial Prosthesis	1
18	Facial Prosthesis (Continue)	1
19	Alveolar Ridge Atrophy	1
20	Alveolar Ridge Atrophy (Continue)	1
21	Dental Implantlogy	1
22	Dental Implantlogy (Continue)	1
23	Esthetics in CD	1
24	Characteristics Of Ideal Materials For Dental Implant	1
25	Copy denture	1
26	Over Denture	1
27	Over Denture (Continue)	1
28	Neutral zone in CD	1
29	Precision Attachments	1
30	Precision Attachments (Continue)	1
Total		30

Clinical requirements

Lab number	Study unit title	Hours
1	2 cases of upper and lower complete dentures	
2	1 single complete denture against partial denture or natural teeth.	
3	1 immediate or flexible RPD.	
4	1 case repair.	
Total		150

The grading system

Number	Assessment measurement	Score distribution	
1	First semester (12.5%)	Theory (2%)	clinical (10.5%)
2	Midyear examination (25%)	Theory (25%)	
3	Second semester	Theory (2%)	clinical (10.5%)
4	Final examination (50%)	Theory (35%)	clinical (15%)
Total	100%	100%	

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector		No ×
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments	Yes √	
7	Others (specify)	Samples and specimens	

Department of Oral Diagnosis

Basic information

1- Subject title	Anatomy	
2- Subject time	Fifth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Oral Medicine	
2-Number of credits	Theory:2	Clinical:2.5
3-Number of contact hours	Theory:1h/wk.	Clinics:2.5h/wk.
4-Subject time	Fifth year	

No.	Title of the lectures	Hours
1	The principles of oral diagnosis Clinical examinations	1
2	The principles of oral diagnosis Clinical examinations	1
3	Laboratory investigations in dentistry	1
4	Laboratory investigations in dentistry	1

5	Orofacial pain	1
6	Orofacial pain	1
7	Neuromuscular disorder	1
8	Neuromuscular disorder	1
9	T.M.J disorders	1
10	T.M.J disorders	1
11	White & red lesions	1
12	White & red lesions	1
13	Oral Ulceration and Vesiculo-bullous lesions	1
14	Oral Ulceration and Vesiculo-bullous lesions	1
15	Oral pigmented lesions	1
16	Oral pigmented lesions	1
17	Salivary glands diseases	1
18	Salivary glands diseases	1
19	Benign lesions of oral cavity	1
20	Benign lesions of oral cavity	1
21	pre-malignant lesions of the oral mucosa	1
22	pre-malignant lesions of the oral mucosa	1
23	oral cancers	1
24	oral cancers	1
25	early detection of oral cancers	1
26	Autoimmune diseases	1
27	Autoimmune diseases	1
28	Oral manifestation of allergic reaction	1
29	diseases of tongue	1
30	Oral manifestation of nutritional deficiency	1
Total		30

Clinical requirements

Lab number	Study unit title	Hours
1	Bacterial infections.	2.5
2	Viral infections.	2.5
3	fungal infections.	2.5
4	cardiovascular system	2.5
5	cardiovascular system	2.5
6	Anemia	2.5
7	Anemia	2.5
8	Leukemia	2.5
9	Leukemia	2.5
10	GIT	2.5
11	Hepatitis	2.5

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

The grading system

Number	Assessment measurement	Score distribution
1	1st & 2nd semester (25%)	10% First quizzes 10% Second quizzes 5% Clinical requirement
2	Mid year examination (25%)	25% written examination
3	Final examination (50%)	50% written examination (40% oral medicine+10%advanced radiology)
Total	100%	100%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems	Yes √	
2	Internet access and E-mail	Yes √	
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments		No ×
7	Others (specify)		No ×

Department of Oral & Maxillofacial Surgery

Basic information

1- Subject title	Anatomy	
2- Subject time	Fifth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Oral Surgery	
2-Number of credits	Theory:2	Clinical: 5
3-Number of contact hours	Theory:1h/week	Clinic:5h/week
4-Subject time	Fifth Year	

No.	Title of the lectures	Hours
1	Endodontic surgery	1
2	Endodontic surgery	1
3	Orofacial pain	1
4	Benign cystic lesions	1
5	Preprosthetic surgery	1
6	Preprosthetic surgery	1
7	Salivary gland diseases	1
8	Salivary gland diseases	1
9	Diseases of TMJ	1
10	Facial injuries	1
11	Facial injuries	1
12	Facial injuries	1
13	Premalignant conditions	1
14	Oral cancer	1
15	Oral cancer	1
16	Implants in oral surgery	1
17	Implants in oral surgery	1
18	Biopsy in oral surgery	1

19	Odontogenic tumors	1
20	Non-odontogenic tumors	1
21	Fibro-osseous lesions	1
22	Diagnostic imaging	1
23	Surgical aids to orthodontics	1
24	Orthognathic surgery	1
25	Orthognathic surgery	1
26	Cleft lip & palate	1
27	LASER & Cryosurgery	1
28	Management of foreign bodies	1
29	Reconstructive surgery	1
30	Reconstructive surgery	1
Total		30

Clinical requirement

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

The grading system

Number	Assessment measurement	Score distribution
1	First semester (5%)	Written 5%
2	Mid year examination (25%)	Written 25%
3	Second semester (5%)	Written 5%
4	Requirement (15%)	Exodontia & theatre 10% + seminar & quiz 5%
4	Final examination (50%)	Written 30% + oral 15% & clinical 5%
Total	100%	100%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	

6	Video and audio media equipments	Yes √	
7	Others (specify)		

Department of Orthodontics

Basic information

1- Subject title	Anatomy	
2- Subject time	Fifth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Orthodontics	
2-Number of credits	Theory:2	Clinical: 2.5
3-Number of contact hours	Theory:1 h/wk	Clinic/ Seminars: 2.5 hrs.
4-Subject time	Fifth Year	

No.	Title of the lectures	Hours
1	Orthodontic diagnosis and treatment planning:	1

	a. Personal data (name, age, gender, race, address, reference and chief complaint, motivation, dental and medical history, prenatal history, postnatal history, and family history)	
2	b. Clinical examination i. General body stature ii. Face examination in 3 dimensions (facial proportion, facial divergence, profile analysis)	1
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)	1
4	v. Occlusion (classification, midline, overjet and overbite) vi. Dentition (teeth number, position, dental age, wear, cracks and white spots) vii. Temporomandibular joint	1
5	c. Diagnostic aids i. orthopantomography (development, advantages, disadvantages, limitations, uses) ii. Study models (preparation, advantages, disadvantages, uses)	1
6	iii. cephalometrics (development, cephalostat, advantages, disadvantages, limitations, uses, tracing and landmarks) iv. Other views: hand wrist and periapical radiographs (skeletal maturity, localization, root resorption)	1
7	v. Photography vi. 3D imaging d. Consent form	1
8	e. treatment planning: preventive, interceptive, and corrective orthodontics	1
9	<u>Incisal overbite and crossbite:</u> a. Deep bite (types, etiology, treatment)	1
10	b. Open bite (types, etiology, treatment, skeletal vs. dental)	1
11	c. Cross bite and scissors bite (types, etiology, treatment, skeletal vs. dental)	1
12	c. Cross bite and scissors bite (types, etiology, treatment, skeletal vs. dental)	1
13	<u>Crowding, spacing, space need:</u> a. Types of crowding (primary, secondary and tertiary)	1
14	b. Space analysis (in permanent and mixed dentition, space required and potential space, methods, Bolton's ratio)	1
15	c. Space creation (molar distalization, expansion, extraction, incisor proclination, proximal stripping, derotation and uprightening)	1
16	d. Closure of spaces (molar protraction, incisor retraction, conservative)	1
17	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)	1

18	Treatment of common local factors: Including definition, prevalence, etiology, types, effect on occlusion, and treatment (with emphasis maxillary canine): a. Extra-teeth (supernumerary) and missing teeth (hypodontia)	1
19	b. Early loss of deciduous teeth(space maintainers and space regainers) c. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis	1
20	d. Abnormal eruptive behavior (displacement, transposition) e. Large frenum (labial and lingual)	1
21	f. Bad oral habits	1
22	Treatment of general factors: a. Class I treatment (etiology, skeletal and soft tissue pattern, dental factors, bimaxillary proclination, treatment methods and time)	1
23	a. Class I treatment (etiology, skeletal and soft tissue pattern, dental factors, bimaxillary proclination, treatment methods and time)	1
24	b. Class II div. 1 treatment (etiology, skeletal and soft tissue pattern, dental factors, habits, treatment methods and time)	1
25	c. Class II div. 2 treatment (etiology, skeletal and soft tissue pattern, dental factors, treatment methods and time)	1
26	d. Class III treatment (etiology, skeletal and soft tissue pattern, dental factors, treatment methods and time)	1
27	Treatment of adults	1
28	Periodontal problems and orthognathic surgery	1
29	Cleft lip and palate	1
30	Embryology, classification, dental effects, treatment	1
Total		30

Clinical requirements

Item	Minimum Requirements	Hours
	Treatment of one patient: 1- Diagnosis :(Mandatory) a- Case sheet filling & presentation b- Upper and lower impression. c-Study models preparation d- Extra & intra oral photographs e- Cephalometric tracing 2-Treatment plan:(Mandatory) 3- Insertion(Optional) 4- Adjustment or Activation(Optional)	
Total	The student should receive at least one orthodontic case to enter the final exam	75

The grading system

Number	Assessment measurement	Score distribution
1	First semester (Presentation of one Seminar, quizzes, clinical requirements, attendance and assessment)	12.5%
2	Mid year examination	25%
3	Second semester (Quizzes, clinical requirements, attendance and assessment)	12.5%
4	Final examination	50%
Total		100%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera	Yes √	
6	Video and audio media equipments	Yes √	
7	Others (specify)	Viewer for tracing	

Department of pedodontics and preventive dentistry

Basic information

1- Subject title	Anatomy	
2- Subject time	Fifth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Pediatric dentistry	
2-Number of credits	Theory:2	Clinical: 1.25
3-Number of contact hours	Theory:1hour /wk.	Clinic:2.5h/2wk.
4-Subject time	Fifth Year	

No.	Title of the lectures	Hours
1	Diagnosis and treatment planning	1
2	Preliminary medical and dental History. Clinical examination, Art and science of behavior management	1
3	Child development, Major area of development, Variables influencing children's dental behaviors ,classification of children's behavior	1
4	Non pharmacologic management of patient behavior, Purpose, Classifying children, s communication methods	1
5	Pharmacologic management of patient behavior, Degree of sedation, Indications for pharmacological behavior management technique, Pre-treatment documentation and assessment, Sedation in pediatric dentistry	1
6	Conscious sedation, Routes of drug administration, Enteral sedation ,Rectal route, Intra muscular route, Intravenous route, Inhalation, Drugs and agents used for sedation, nitrous oxide general anesthesia	1
7	management of traumatic injuries to the teeth and supporting tissues of children و Trauma to the face	1
8	classification of injuries to the anterior teeth of children methods of clinical examination	1
9	Traumatic injuries of the primary teeth and its effect on permanent teeth	1

10	Treatment of injury of permanent teeth, emergency treatment, temporary restoration of fractured teeth	1
11	Local anesthesia and pain control for children	1
12	Anesthetizing mandibular and maxillary teeth and soft tissue	1
13	Complications after a local anesthetic	1
14	Oral surgery for children, Extraction of primary teeth	1
15	Infection manifestation and management	1
16	Gingivitis and periodontal disease in children: introduction simple gingivitis, eruption gingivitis, acute gingival disease; herpes simplex viral infection.	1
17	Acute candidacies (thrush), acute bacterial infection, chronic non specific gingivitis, gingival diseases modified by systemic factors.	1
18	Gingival lesions of genetic origin, ascorbic acid deficiency gingivitis.	1
19	Periodontal diseases in children, early onset periodontitis, prepubertal periodontitis, localized juvenile periodontitis.	1
20	Papillon – Lefevere syndrome, gingival recession, extrinsic stains and deposits on teeth	1
21	Management of space problems, planning for space maintenance, loss of primary incisors	1
22	Space Maintenance for the First and Second Primary Molar and the Primary Canine Area, premature loss of second primary molar	1
23	Loss of the Second Primary Molar Before Eruption of the First Permanent Molar, Areas of Multiple Primary Molar Loss	1
24	Development of dental arch and occlusion; deciduous phase, mixed dentition phase.	1
25	Arch length analysis; Nance analysis, Moyers mixed dentition analysis, Tanaka and Johnston analysis, Bolton analysis.	1
26	Dental problems of the disabled child, first dental visit, Radiographic examination, Preventive dentistry, Management of a child with special care needs during dental treatment	1
27	Treatment immobilization , Intellectual disability, Down syndrome, , Learning disability	1
28	Fragile X syndrome, cerebral palsy, autism,	1
29	Respiratory diseases, hearing loss, visual impairment, epilepsy	1
30	Heart disease, hemophilia ,sickle cell anemia, viral hepatitis, AIDS, systemic diseases	1
Total		30

Number	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

The grading system

Number	Assessment measurement	Score distribution
1	First semester+ Second semester (25%)	25%
2	Mid year examination (25%)	25%
3	Final examination (50%)	50%
Total	100%	100%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments		No ×
7	Others (specify)		

Department of Pedodontics and Preventive dentistry

Basic information

1- Subject title	Anatomy	
2- Subject time	Fifth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Preventive dentistry	
2-Number of credits	Theory:2	Clinical:1.25
3-Number of contact hours	Theory:1hour /wk.	Clinic:2.5 hours /2wk.
4-Subject time	Fifth year	

No.	Title of the lectures	Hours
1	Preventive dentistry (introduction)	1
2	Dental Caries development	1
3	Fluoride in Dentistry	1
4	Systemic fluoridation (history)	1
5	Communal water fluoridation	1
6	Fluoride supplements	1
7	Topical fluoridation	1
8	Self applied fluoride	1
9	Professionally applied fluoride	1
10	Toxicity of fluoride	1
11	Microbiology of caries	1
12	Cariogenic potential of bacteria	1
13	Fissure sealants	1
14	New approach in restorative dentistry	1
15	Diet and dental caries	1
16	Non- sugar sweeteners	1
17	Dietary counseling in dental practice	1
18	Nutrition and oral health	1
19	Nutrition, diet & periodontal disease	1
20	Saliva and dental caries	1
21	Oral immune system	1
22	Oral hygiene measures(Mechanical)	1
23	Oral hygiene measures (Chemical)	1
24	Diagnosis of caries	1
25	Identification of high risk group	1
26	Dental health of disabled and medically compromised patients	1
27	Geriatric dentistry	1
28	Health education and motivation	1
29	Uses of LASER in dentistry	1
30	Prevention of peri-implantitis	1
Total		30

Clinical requirements

Lab number	Study unit title	
	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

The grading system

Number	Assessment measurement	Score distribution
1	First semester+ Second semester (25%)	Theory: (3%) Clinic: (22%)
2	Mid year examination (25%)	Theory: (25%)
3	Final examination (50%)	Theory :(30%) Clinic: (20%)
Total	100%	Theory :(58%) Clinic: (42%)

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments		No ×
7	Others (specify)		

Department of periodontology

Basic information

1- Subject title	Anatomy	
2- Subject time	Fifth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Periodontics	
2-Number of credits	Theory:2	Clinical:2.5
3-Number of contact hours	Theory:1h/wk.	Clinic:2.5h/wk.
4-Subject time	Fifth year	

No	Lectures	Hours
1	Diagnosis and classification of periodontal diseases	1
2	Advanced diagnosis	1
3	Periodontal pockets	1
4	Immunology and Immunopathology	1
5	Immunology and Immunopathology	1
6	Tooth mobility	1
7	Epidemiology of periodontal diseases	1
8	Furcation involvement	1
9	Furcation involvement	1
10	Periodontics and other aspects of dentistry	1
11	Halitosis	1
12	Assessment of periodontal surgeries	1
13	Assessment of periodontal surgeries	1
14	Assessment of periodontal surgeries	1
15	Assessment of periodontal surgeries	1
16	Laser therapy	1
17	Non-surgical periodontal therapy	1
18	Infection control	1

19	Management of medically compromised patients	1
20	Management of medically compromised patients	1
21	Gingival crevicular fluid	1
22	Dentin hypersensitivity	1
23	Healing of periodontal wounds	1
24	Healing of periodontal wounds	1
25	Regenerative periodontal therapy	1
26	Regenerative periodontal therapy	1
27	Occlusion	1
28	Trauma from occlusion	1
29	Prognosis of periodontal diseases	1
30	Esthetic approach in periodontology	1
Total		30

5^{th} 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 planing Min= 6 , Max= 12 teeth
	Seminar presentation =2
	Surgery =1
	Maintenance per each case

Extra marks for finished case
Finished case include :
Scoring , scaling, root planing, dental prosthesis , dental filling , extraction of unsaved teeth

The grading system

Number	Assessment measurement	Score distribution
1	First & Second semester (25%)	20% Clinical requirement 5%[attendance/quizzes/seminars/behavior]
2	Mid year examination (25%)	25% written exam
3	Final examination (50%)	15% Practical exam 35% written exam
Total	100%	100 %

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail		No ×
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	

5	Digital camera	Yes √	
6	Video and audio media equipments		No ×
7	Others (specify)		No ×

Department Of Restorative Dentistry

Basic information

1- Subject title	Anatomy	
2- Subject time	Fifth Year	
3- Credits	4	
	Theory	Clinical
4-Number of contact hours h/week	1	2
5- Lecturer(s)		

Time table: Theory

A- Basic information

1-Subject title	Clinical Endodontics Clinical Fixed Prosthodontics	
2-Number of credits	Theory:2	Clinical:5
3-Number of contact hours	Theory:1h/2wk Endodontics 1h/2wk Fixed Prosthodontic.	Laboratory/ Clinic:5h/wk.
4-Subject time	Fifth Year	

No.	Title of the lectures/ Endodontic	Hours
1	Endodontic diagnosis	1
2	Pain control in Endodontics	1

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

Number	Title of the lectures Fixed Prosthodontics	Hours
1	Terminology, definition of fixed partial denture , Effect of Tooth Loss, Comparism with R.P.D	1
2	Types of Fixed Bridge including Basic Bridge Design	1
3	Components of Fixed Bridge; ♦ Retainers.----------	1
4	Components of Fixed Bridge; ♦ Pontics---------- ♦ Connectors.----------	1
5	♦ Clinical Consideration for Bridge Construction.- _Abutment Tooth(evaluation and selection) _Crown/Root Ratio. _Splinting of teeth. _Patient Occlusal Status. _General Factors.	1
6	♦ Clinical Situations affecting Bridge Design; ♦ (Post. Tilted Abutments, Span Length, Pier Abut., Arch Curvature)	1
7	♦ Resin bonded bridge	1
8	♦ Diagnosis And Treatment Plan. a. Intra-oral Examination. b. X-Rays Examination. c. Diagnostic Cast Examination.	1
9	♦ Gingival retraction and impression(techniques)and impression disinfection	1
10	♦ provisional Restoration , Oclussion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registeration, and Articulation	1

11	♦ provisional Restoration , Oclussion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registeration, and Articulation	1
12	♦ Try-in and Shade Selection (Colour dimensions Hue,Chroma,and Value).	1
13	♦ Final Cementation of F.P.Ds.(Techniques)	1
14	♦ Failure in Fixed Prosthodontics.	1
15	♦ Porcelain in Fixed Prosthodontics (Current Ceramic).	1
Total		15

Clinical Requirements

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

The grading system

Number	Assessment measurement	Score distribution
1	Clinical Requirements (25%) Amalgam and composite restorations	13%
	Endodontic requirements	6%
	Fixed prosthodontics requirements	6%
2	Mid year examination (25%)	25%
3	Final examination (50%) 25% theory 25% clinical	50%
Total		100%

Technology Support

Number	Subject	Yes √	No ×
1	Online Authoring systems		No ×
2	Internet access and E-mail	Yes √	
3	A data show projector	Yes √	
4	Microsoft power point for lecture presentations	Yes √	
5	Digital camera		No ×
6	Video and audio media equipments		No ×
7	Others (specify)		

Research project

Research project	2 hr./ week
Credits	Theory : 4

Fifth year Summer Training (8 weeks)

Number	Subject	Theory (hours/week)	Practical (hours/week)	Total Theory	Total Practical
1	Oral medicine	1	2	8	16
2	Oral surgery	1	2	8	16
3	Restorative dentistry	1	4	8	32
4	prosthodontics	1	4	8	32
5	Orthodontics	1	2	8	16
6	Pedo & prevention	2	4	16	32
7	Periodontics	1	2	8	16
Total		8	20	64	160

Total hours: 224

N.B: Each subject of the fifth grade curriculum has 38 weeks/ year except Pedodontics and preventive dentistry ,each one has 19 weeks/ year

Summary: Fifth Year.
Total Theories - Hours/ Week: 10
Total Theories - Hours/ year: 10x30= 300
Total Practical Hours/ Week: 25
Total Practical Hours/ year: 25x30= 750
Total Hours / Year: 1050
Total credits: 45

Total Hours / Year with summer training: 1050+224= 1274