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

Academic Program and Course Description Guide

College of Dentistry
Wasit University

2024-2025

Academic Program Description Form

University Name: **Wasit University**
Faculty/Institute: **Dentistry College**
Scientific Department: **Basic Sciences**
Academic or Professional Program Name: **Doctor of Dental Surgery (DDS)**
Final Certificate Name: **BDS**
Academic System: **Semester system**
Description Preparation Date:
File Completion Date:

Signature:
Head of Department Name:

Date:

Signature:
Scientific Associate Name:

Date:

The file is checked by:
Department of Quality Assurance and University Performance
Director of the Quality Assurance and University Performance Department:
Date:
Signature:

Approval of the Dean

1. Program Vision

Excellence and leadership in the field of dentistry locally, regionally and internationally in terms of education, scientific research and community service.

2. Program Mission

To pursue excellence in research, and to provide high quality undergraduate and postgraduate education and training in dentistry in order to improve health, through improving oral health nationwide and internationally, in accordance with the University's Teaching and Learning Plan and the University's and Division's Strategic Imperatives and Strategic Priorities

3. Program Objectives

1. the preparation and training of students and graduate students and dentists at a high level of experience and practical, by giving them the opportunity to study all methods of modern dentistry.
2. graduating dentists qualified scientifically to meet the needs of hospitals and health facilities both public and private, in particular in the provinces of Nineveh province and neighboring provinces as well as the rest of the governorates of the country in general.
3. Preparation of preventive health programs for all segments of society, through studies and research on the health of the mouth and teeth.
4. Providing health services to community members of all classes and actress processors, sound and free from defects from screening, diagnosis and treatment of diseases of the mouth and teeth, and the work of dislocation and padding and evaluation of the teeth, as well as compensation of industrial bridges, and crews and the dental implants through the use of modern technologies and the use of hardware and tools developed in the outpatient College of Dentistry.
5. the organization of the graduate program to train specialists in the fields of dentistry, including responding to the needs of the community and the continued development of medical services and health.
6. the organization of continuing education programs so as to ensure the permanent renewal of the knowledge of faculty members and practitioners to develop their scientific, professional and research.

4. **Program Accreditation**
NA

5. **Other external influences**
NA

6. Program Structure and 7. Program Description
Wasit University- College of Dentistry
(1st year curriculum- 1 academic year, 30 weeks)

	Subject	Department	1st semester		2nd semester		Total hours/year		Total credits		Total credits
			Theoretical hrs.	Practical hrs.	Theoretical hrs.	Practical hrs.	Theoretical hrs.	Practical hrs.	Theoretical credits	Practical credits	
1	Human Anatomy	Oral Maxillofacial Surgery	1	2	1	2	30	60	2	2	4
2	Biology	Basic Sciences	2	2	2	2	60	60	4	2	6
3	Medical Physics	Basic Sciences	2	2	2	2	60	60	4	2	6
4	Computer	Basic Sciences	1	2	1	2	30	60	2	2	4
5	Human Rights and Democracy	Basic Sciences	1	-	1	-	30	-	2	-	2
6	Dental Anatomy	Restorative and Aesthetic Dentistry	2	2	2	2	60	60	4	2	6
7	English Languages	Orthodontics	1	-	1	-	30	-	2	-	2
8	Arabic Languages	Basic Sciences	1	-	1	-	30	-	2	-	2
9	Medical Chemistry	Basic Sciences	2	2	2	2	60	60	4	2	6
			13	12	13	12	390	360	26	12	38

Summery 1st year:
Total theory hrs./week: 13 hrs.
Total theories hrs./year:13×30=390
Total Practical hrs./week:12
Total practical hrs./year12×30=360
Total hrs./year:750 hrs.
Total credits:38

Wasit University- College of Dentistry

(2nd year curriculum- 1 academic year, 30 weeks)

	Subject	Department	1st semester		2nd semester		Total hours/year		Total credits		Total credits
			Theoretical hrs.	Practical hrs.	Theoretical hrs.	Practical hrs.	Theoretical hrs.	Practical hrs.	Theoretical credits	Practical credits	
1	Human Anatomy	Oral Maxillofacial Surgery	1	2	1	2	30	60	2	2	4
2	Biochemistry	Basic Sciences	2	2	2	2	60	60	4	2	6
3	Oral Histology and Embryology	Oral Diagnosis	2	2	2	2	60	60	4	2	6
4	General Histology	Basic Sciences	2	2	2	2	60	60	4	2	6
5	Dental Materials	Prosthodontics	1	2	1	2	30	60	2	2	4
6	Prosthodontics	Prosthodontics	1	4	1	4	30	120	2	4	6
7	General Physiology	Basic Sciences	2	2	2	2	60	60	4	2	6
	Crimes of Al Baath Party	Basic science	1	-	1	-	30	-	2	-	2
			12	16	12	16	360	480	24	16	40

Summery 2nd year:

Total theory hrs./week: 12 hrs.

Total theories hrs./year:12×30=360

Total Practical hrs./week:16

Total practical hrs./year1162×30=480

Total hrs./year:840 hrs.

Total credits:40

Wasit University- College of Dentistry

(3rd year curriculum- 1 academic year, 30 weeks)

	Subject	Department	1st semester		2nd semester		Total hours/year		Total credits		Total credits
			Theoretical hrs.	Practical hrs.	Theoretical hrs.	Practical hrs.	Theoretical hrs.	Practical hrs.	Theoretical credits	Practical credits	
1	Community Dentistry	Pedodontics and Preventive Dentistry	1	2	1	2	30	60	2	2	4
2	Dental Radiology	Oral Diagnosis	1	2	1	2	30	60	2	2	4
3	General Pathology	Oral Diagnosis	2	2	2	2	60	60	4	2	6
4	Prosthodontics	Prosthodontics	1	3	1	3	30	90	2	3	5
5	Oral Surgery	Oral Maxillofacial Surgery	1	2	1	2	30	60	2	2	4
6	Pharmacology	Basic Sciences	2	2	2	2	60	60	4	2	6
7	Microbiology	Basic Sciences	2	2	2	2	60	60	4	2	6
8	Conservative Dentistry	Restorative and Aesthetic Dentistry	2	4	2	4	60	120	4	4	8
9	Dental Ethics	Oral Maxillofacial Surgery	1	-	1	-	30	-	2	-	2
			13	19	13	19	390	570	26	19	45

Summery 3rd year:

Total theory hrs./week: 13 hrs.

Total theories hrs./year:13×30=390

Total Practical hrs./week:19

Total practical hrs./year19×30=570

Total hrs./year:960 hrs.

Total credits:45

Wasit University- College of Dentistry

(4th year curriculum- 1 academic year, 30 weeks)

	Subject	Department	1st semester		2nd semester		Total hours/year		Total credits		Total credits
			Theoretical hrs.	Practical hrs.	Theoretical hrs.	Practical hrs.	Theoretical hrs.	Practical hrs.	Theoretical credits	Practical credits	
1	General Medicine	Oral Maxillofacial Surgery	1	2	1	2	30	60	2	2	4
2	General Surgery	Oral Maxillofacial Surgery	1	2	1	2	30	60	2	2	4
3	Oral Pathology	Oral Diagnosis	2	3	2	3	60	90	4	3	7
4	Oral Surgery	Oral Maxillofacial Surgery	1	4	1	4	30	120	2	4	6
5	Orthodontics	Orthodontics	1	4	1	4	30	120	2	4	6
6	Pediatric Dentistry	Pedodontics and Preventive Dentistry	1	2	1	2	30	60	2	2	4
7	Periodontics	Periodontics	1	3	1	3	30	90	2	3	5
8	Prosthodontics	Prosthodontics	1	3	1	3	30	90	2	3	5
9	Conservative Dentistry	Restorative and Aesthetic Dentistry	1	6	1	6	30	180	2	6	8
			10	29	10	29	300	870	20	29	49

Summery 4th year:

Total theory hrs./week: 10 hrs.

Total theories hrs./year:10×30=300

Total Practical hrs./week:29

Total practical hrs./year: 29×30=870

Total hrs./year:1170 hrs.

Total credits:49

Wasit University- College of Dentistry

(5th year curriculum- 1 academic year, 30 weeks)

	Subject	Department	1st semester		2nd semester		Total hours/year		Total credits		Total credits
			Theoretical hrs.	Practical hrs.	Theoretical hrs.	Practical hrs.	Theoretical hrs.	Practical hrs.	Theoretical credits	Practical credits	
1	Prosthodontics	Prosthodontics	1	6	1	6	30	180	2	6	8
2	Oral Medicine	Oral Diagnosis	1	4	1	4	30	120	2	4	6
3	Oral Surgery	Oral Maxillofacial Surgery	1	6	1	6	30	180	2	6	8
4	Orthodontics	Orthodontics	1	4	1	4	30	120	2	4	6
5	Pediatric Dentistry	Pedodontics and Preventive Dentistry	1	3	1	3	30	90	2	3	5
6	Preventive Dentistry	Pedodontics and Preventive Dentistry	1	3	1	3	30	90	2	3	5
7	Periodontics	Periodontics	1	3	1	3	30	90	2	3	5
8	Conservative Dentistry	Restorative and Aesthetic Dentistry	1	6	1	6	30	180	2	6	8
9	Research Project		1	-	1	-	30	-	2	-	2
			9	35	9	35	270	1050	18	35	53

Summery 5th year:
Total theory hrs./week: 9 hrs.
Total theories hrs./year:9×30=270
Total Practical hrs./week:35
Total practical hrs./year: 35×30=1050
Total hrs./year:1320 hrs.
Total credits:53

Total Credits for the Five years: 225

8.Expected learning outcomes of the program	
Knowledge	
Diagnose and manage various common dental problems	Prevent and manage of complications which might encountered while carrying out different surgical and other procedures
Skills	
Prevent oral disease and promote oral health condition where possible	Work as a team member in the community oral health programs
Control pain and anxiety of the patients during dental treatment	Reporting cases and referral procedures for consultation
Ethics	
The five key principles of dental ethics are patient autonomy, nonmaleficence, beneficence, justice, and veracity. Understanding each of these principles will provide the guidance needed to ensure that patient needs are met within the ethical guidelines of the dental	Dental ethics is "a system of principles governing the dental practice, a moral obligation to render the best quality of dental services to the patient and to maintain an honest relationship with other professionals and society."[1] Dental ethics plays an integral role in the daily practice of dental hygiene and infiltrate the "how" to proceed, the "why" to proceed, and the "when" to proceed with treatment. Also, knowledge, presentation, and communication are important concepts in meeting the dental ethics perimeters.

9. Teaching and Learning Strategies

- ✓ Delivering the Lectures using PowerPoint, Smart Screen and Using Tools and Equipment
- ✓ Continuous discussion by asking questions and answers in the hall and motivating the students to self-thinking and thus to self-learning.
- ✓ Innovative educational methods, such as scientific instructional pictures, procedure application, and displaying an educational video that brings the material closer to the student's minds

1. Evaluation methods

Attendance, Weekly Quizzes and semester examinations, Mid-term and final exam.

2. Faculty

Faculty Members

Academic Rank	Specialization	Special Requirements/Skills	Number of the teaching staff

			(if applicable)			
	General	**Special**			**Staff**	**Lecturer**
Assistant Prof. Doctor	B.D.S	Oral and Maxillofacial Surgery			4	
Assistant Prof Doctor	MD	Community Medicine			1	
Assistant Prof	B.D.S	Dental Radiology			1	
Assistant prof Doctor	B.V.M	Basic Sciences			3	
Lecturer	B.D.S	Periodontology			1	
Lecturer	B.D.S	Operative Dentistry			1	
Lecturer	B.S	Basic Sciences			5	
Assistant Lecturer	B.D.S	Orthodontics			1	
Assistant Lecturer	B.S	Basic sciences			5	

Professional Development

Mentoring new faculty members

- **One-on-one mentorship with an advanced faculty mentor**. The department chair will usually assign new faculty a mentor based on research interests and will require that the mentor and mentee meet a certain number of times. This model is simple enough to implement, but the mentee may need to seek out additional opportunities for informal mentorship or may be "stuck" with a less-than-ideal mentor.
- **One-on-one mentorship with a near-peer mentor**. The department chair will assign new faculty a mentor who is in more of a peer position. Sometimes a new faculty member can get a better sense of the current state of the department and service expectations from someone who is a peer. Tenure guidelines and expectations may have recently changed, and it is possible that a peer mentor will be more aware of these types of shifts. Still, the new faculty may miss out on some of the wisdom and deeper institutional knowledge of a long-tenured faculty member.
- **Group Mentorship Models.** In these types of models, new faculty may be assigned

multiple mentors or be included in a less hierarchical group that includes mentees, peer figures, and more advanced mentors. Group models, or mentoring networks, can remove some of the pressure from the mentor-mentee relationship, and it can give mentees more freedom of choice regarding who to interact with and the depth and type of these interactions. Organizing larger-scale groups and making sure that everyone in the groups has the opportunity to get to know one another involves a great deal of planning and coordination, including sometimes across departments.

- **Sponsorship.** An advanced or peer faculty mentor can invite a newer faculty member to partake or collaborate in a form of professional activity, such as writing an article or engaging in original research. While professionally rewarding, this type of mentorship should involve a careful agreement on the part of all parties concerning how workload and attribution will be shared.

Professional development of faculty members

- **Communities of Practice**: Communities of practice are groups of people who share a concern or a passion for a specific interest. There are a number of them at UW, on topics including collaboration, teamwork and group work in education; academic advising; exploring Extended Reality technologies in teaching and learning; and knowledge mobilization.
- **Centre for Teaching Excellence**: an annual conference, one-on-one guidance, workshops, a course design retreat, grants for research on teaching and learning, and more. CTE also facilitates the workshops on graduate supervision that are required for getting Approved Doctoral Dissertation Supervisor (ADDS) status.
- **Writing and Communication Centre**: support for faculty as both instructors and writers, including one-on-one consultations and a weekly Faculty Writing Café
- **FAUW**: an annual tenure and promotion workshop series, new faculty events, and more
- **Academic Leadership Program**: training for Academic Chairs and Directors, Associate Chairs/Directors, and Associate Deans
- **Organizational & Human Development**: workshops in leadership development, business communication, inclusivity, and more – they can also provide customized training solutions for your department
- **Information Systems & Technology**: tech-related workshops, seminars, and other training opportunities
- **Human Rights, Equity and Inclusion Office**: A range of trainings and workshops, including equitable recruitment training.
- **Centre for Extended Learning**: Professional Development courses ranging from languages to project management to MS Office
- **Waterloo International**: funding opportunities, and grants to help you internationalize your course content
- **Centre for Career Development**: advising and workshops for employees on career values, work permits, retirement, and more

3. Acceptance Criterion

According to College Instructions

4. **The most important sources of information about the program**
Mention above

5. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Fist Year	101AN	Human Anatomy	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	102AL	Arabic Language	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	103CS	Computer Sciences	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	104DA	Anatomy Dental	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	105HR	Rights Human	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	106CH	MedicalChemistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	107PS	Physics Medical	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	108BL	Biology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	109EL	(EnglishLanguage)	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Second Year	209DM	Dental Material	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	210PR	Prosthodontics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	211EL	Embryology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	212BC	Biochemistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√

	213GH	General Histology	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	214PH	General Physiology	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	215OH	Oral Histology	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	201AN	Anatomy	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
Third Year	316MB	Microbiology	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	317PC	Pharmacology	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	318CM	Community Dentistry	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	319CV	Conservative dentistry	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	320RL	Dental Radiology	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	321PA	General Pathology	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	322OS	Oral Surgery	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	310PR	Prosthodontics	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
Fourth Year	423GM	General Medicine	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	424GS	General Surgery	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	422OS	Oral Surgery	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	419CV	Conservative Dentistry	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√

	425OP	Oral Pathology	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	426OD	Orthodontic	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	427PE	Pedodontic	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	428PT	Periodontics	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	410PR	Prosthodontics	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
Five Year	519CV	Conservative Dentistry	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	529OM	Oral Medicine	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	522OS	Oral Surgery	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	530PAPD	Pedodontics	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	531PD	Prevention	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	510PR	Prosthodontics	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	526OD	Orthodontics	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√
	528PT	Periodontics	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√

- **Please tick the boxes corresponding to the individual program learning outcomes under evaluation**

Course Description Form

1. Course Name:
Medical Physic
2. Course Code:
3. Semester / Year:
2023–2024
4. Description Preparation Date:
2024
5. Available Attendance Forms:
weekly
6. Number of Credit Hours (Total) / Number of Units (Total)
60 hours of theoretical lectures + 60 hours of practical = 120 hours
7. Course administrator's name (mention all, if more than one name)
Name: Amel Desher Hussein Email: adashar@uowasit.edu.iq
8. Course Objectives

Course Objectives	**1- Enabling students to become familiar with concept of medical physics and its Relationship in the concept of dentistry in particular and the concept of medicine in particular.** **2- Contributing to describing the medical devices used in medical centers. Hospitals and their role in treating or diagnosing some infections.** **3- Encouraging students to understand and realize the importance of medical physics and its relationship. The phenomena of daily and identifying the correct methods to deal with these phenomena.** **4- Enabling students to possess scientific knowledge in using research tools. Scientific knowledge in understanding and deducing the curriculum vocabulary and the required**

	duties and preparing reports. **5- Guiding students scientifically in a way that is consistent with the tremendous Progress and development in. The field of medical science and the continuous progress modern exploration.**

9. Teaching and Learning Strategies

Strategy	1- Encouraging students to work in a positive spirit to cooperate among them and achieve success to the most important modern research and studies on medical physics and what it offers advice and treatment for infected patients before their health condition worsens. 2- Providing them with the methods and skills that enable them to deal with patients and interpret the results. 3- Develop their desire to learn and discover by acquiring Self-skills to deal with diagnosing and treating patients. 4- Enabling them to understand how to develop their intellectual and medical capabilities to reach the best results.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	**Terminology Terms:**	**Medical Physic**	**Theoretical lecture**	**Short exams, brief reports, daily assignments and monthly exams, mid and end-year.**
٢	2	**Terminology Terms:**	=	=	
٣	2	**Force on &in Body:**	=	=	
٤	2	**Force on &in Body:**			
٥	2	**Physics of the skeleton:**			
٦	2	**Physics of the skeleton:**			
٧	٢	**Heat and cold in medicine:**			
٨	2	**Heat and cold in medicine:**			

9	2	Energy, work and Power of the Body			
١٠	2	Energy, work and Power of the Body			
١١	2	Pressure:			
١٢	2	Pressure:			
13	2	Electricity within the body:			
14	2	Electricity within the body:			
15	2	Sound in Medicine:			
16	2	Sound in Medicine:			
17	2	Ultrasound:			
١8	2	Ultrasound:			
١9	2	Physics of eye and vision:			
20	2	Physics of eye and vision:			
٢1	2	Light in Medicine:			
٢2	2	Light in Medicine:			
٢3	2	Laser in medicine			
24	2	Laser in medicine			
25	2	Physics of diagnostic X-ray:			
٢6	2	Physics of diagnostic X-ray:			
٢٧	2	Physics of nuclear medicine:			
٢٨	2	Physics of nuclear medicine:			
٢٩	2	Physics of radiation therapy:			
30	2	Physics of radiation therapy:			

11. Course Evaluation

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

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	**John R. Cameron Medical Physics.**
Main references (sources)	**Medical Physics by John R. Cameron, Internatio Publication.** **Elements of Biophysics Randall 1998.**
Recommended books and references (scientific journals, reports…)	MEDICAL PHYSICS INTERNATIONAL
Electronic References, Websites	**Website**

Laboratory Sessions:

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

	–A graphical method of measuring of focal length, Comparison between these methods and the given value	2
10		
11	**Hook's law:** –To verify Hook's law and determine the force constant of the spring.	2
12	–To determine the work done by stretching the spring	2
13	**Focal length of concave mirror:** –Locating the radius of curvature –Determining the focal length	2
14		2
15	General review and 1^{st} course exam	2
16	**Laser applications:** –To measure the width of a single slit by using a laser	2
17	–To measure the wavelength of laser by using a certain single slit	2
18	**Boyle's law:** –To verify Boyle's law	2
19	–To measure the pressure of the atmosphere	2
20	**Inverse Square law:** – To verify the inverse square law	2
21	– Radiation shielding by different thicknesses of a certain material	2
22	**Viscosity of a liquid** – To determine the viscosity of a medium using a small sphere falls with a constant terminal velocity	2
23	– To verify Stokes' law	2
24	**Velocity of the sound** – To measure the velocity of the sound by using a	2

	resonance tube, closed at one end, at room temperature – Calculated the theoretical and practical values of the velocity of sound and comparing between them	2
25		
26	**The focal length of a converging lens** – To determine the focal length of a converging lens by lens displacement method using conjugate foci – To calculate curvature value of this converging lens	2
27		2
28	**Simple Pendulum** –To determine the periodic time and its variation with the length of the pendulum –To calculate the acceleration of free fall	2
29		2
30	General review and 2^{nd} course exam	2

Course Description Form

1. Course Name:
Chemistry/ Grade one
2. Course Code:
None
3. Semester / Year:
Yearly
4. Description Preparation Date:
20/1/2024
5. Available Attendance Forms:
Fully in compass
6. Number of Credit Hours (Total) / Number of Units (Total)
90 hours/ 6 credit
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Wisam Thamer Jabbar Email: Walmayah@uowasit.edu.iq
8. Course Objectives

Course Objectives	• Knowledge of the basics of general chemistry • Familiarity with states of matter and their laws. Knowledge of material states and laws • Definition of solutions and clear equilibrium – Le Chatelier's rule Definition of solutions and chemical equilibrium Le Chatelier's principle • Knowledge of topics that serve as a starting point and the basics of studying chemistry for higher levels • Solutions of all kinds – applying laws to solve problems • Aldehydes and ketones: structural composition and nomenclature controls, preparation methods, physical properties, reactions.
Teaching and Learning Strategies	
Strategy	• How to deliver a lecture using PowerPoint, films, and illustrative pictures related to biochemistry for various topics. • Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus to self-learning.

	• Demanding the writing of scientific reports in the specialty, discussing those reports, and pointing out their strengths and weaknesses to achieve the desired goal. • Using innovative educational means, such as the smart board, data shows, films, and scientific pictures that bring the subject closer to the students' minds.

9. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Knowledge in the practical part how to prepare different solutions from solid and aqueous substance and using Titration Methods to determine the Molarity and Molality .	Fundamentals of Chemistry	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
2	3	All kinds of Solutions - the application of laws to solve problems Aqueous solutions, solubility, concentrations of solutions.	Solutions	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
3	3	Electrolytes& nonelectrolytes	Solutions	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
4	3	To teach student of various Chemical Bonds	Chemical bonds	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
5	3	To teach the student with Preparation methods, reactions and properties of selected groups of organic compounds as well as their applications	Chemical bonds	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
6	3	Acid and Bases, pH buffer acid-base balance in blood. Definition of some inorganic reactions	Acid, base	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
7	3	Definition of qualitative analysis and study its inorganic chemical reactions. Main concepts in equilibrium constants	buffer	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
8	3	Osmosis & osmotic pressure.	Osmosis	Lectures, PPT, description and	Weekly quizzes, discussion,

		emulsions, emulsifying agents, dialysis, haemodialysis		training on samples	monthly exams, mid-year exam, and final exam
9	3	. Knowles Students by The Material and Its usage In the nature and Its Positive and Negative effected on animals & plants &People	Radiochemistry	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
10	3	Radioactivity, radiation dosages medical uses of radioactive isotope	Radiochemistry	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
11	3	Hyberdization, double & triple bonds, resonance . geometric isomers, importance in living systems	Organic Chemistry	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
12	3	Alkanes & Alkenes: Study Physical and Chemical Properties of alkanes, alkenes	Organic Chemistry	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
13	3		Exam	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
14	3	Stereoisomers: Chiral compounds, optical activity	Aromatic compounds.	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
15	3	Diastereomers, mesostereoisomers.	Aromatic compounds.	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
16	3	Module reviews the basic vital compounds carbohydrates along with their metabolism and transformation in the body.	Carbohydrate , protein and lipids	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
17	3	How to differentiate among Carbohydrates, Protein and Lipids Identify Carbohydrates, Proteins and Lipids specifications	Carbohydrate , protein and lipids	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

18	3	Alcohol&Phenals ,methods of preparation, physical properties, reactions ,acidity,esters formation, oxidation	Alcohols &phenols	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
19	3	Aldehydes and ketones,nomcature ,methods of preparation, physical properties,	Aldehydes& ketones	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
20	3	reactions (electrophilic addition like cyanohydrene formation ,hydrates,with alkali nitrogen compounds,condensation reactions ,oxidation and reduction)	Aldehydes& ketones	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
21	3	Carboxylic acids and their derivatives (esters,acids halides, anhydrides, amides,nitriles) ,nomcature ,methods of preparation, physical properties	Carboxylic acids	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, 3and final exam
22	3	Reactions of acids (acidity,salt formation,nucluphilic substitution reactions,halogenation of alpha carbon atom,decarboxilation ,electrophilic substitution).Carboxylic acid derivatives method of preparation (hydration),reduction of acids and their derivatives	Carboxylic acids	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

10. Course Evaluation

Distributing the score out of 100:
The 1st and 2nd semesters: 30 degree which distributed as follow:
Practical 20 degree (12 monthly exam and 8 degree for attendance, quizzes, discussion and presentation, scientific participation).
Theory 10 degree (5 monthly exam and 5 for attendance, quizzes, discussion, presentation and scientific participation).
Theory midd-year exam 10 degree
Final exam 60 degree (40 theory and 20 practical).

11. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	The chemical basis of life 1st ed.George H. Schmed
Main references (sources)	Chemistry 5th ed - Jeremy M. Berg, John L. Tymoczko, Lubert Stryer (2011)
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:

Medical Biology

2. Course Code:

3. Semester / Year:

Semester I and II / first Year

4. Description Preparation Date:

03-10-2023

5. Available Attendance Forms:

Recording the student's attendance in Theoretical and Practical lectures

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

60 hrs. for Theoretical
60 hrs. for Practical
120 hrs. (Total)/ 6 units (Total)

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

Name: Lecturer Dr. Ghufran Jebur Shamkhi Aqeeli
Email: gaqeeli@uowasit.edu.iq

8. Course Objectives

Course Objectives

At the end of the course the student will be able to:

1. Understanding medical biology through studying oral biology and eukaryotic cell and comparing them with prokaryotic organisms, in addition to studying the cell and its components and the function of each structure in the cell, immunology and oral immunity, bacteria and oral diseases, genetics and its role in oral diseases, histology , cell cycle, division of somatic and sexual cells, interaction between cells, cell energy, deoxyribose and ribose nucleic acids and parasitology.
2. Identify, understand and discuss the basic topics in medical biology, including cell formation and the biological and genetic foundations of cells.
3. Discuss the importance of maintaining the biology and health of the mouth and the entire body.
4. Enhancing the student's skills in many basic laboratory techniques.
5. Prepare students scientifically and provide them with the necessary information about biology at the macroscopic and microscopic levels.
6. The ability to distinguish different types of tissues, their functions, and the organs that occupy them
7. Linking scientific concepts to diseases caused by bacteria and parasites, especially oral diseases caused by pathogenic microorganisms.
8. Understanding and studying the method of division of living cells to enrich the student with concepts, study the nature of chromosomes, control the regularity of cell division, and explain how errors occur in division that lead to malignant tumors.
9. Understanding and studying the interconnection of cells, how ions move across the plasma membrane, the chemical composition of cells, and studying different cellular organelles.

9. Teaching and Learning Strategies

Strategy

- ✓ Method of delivering the lecture using PowerPoint
- ✓ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus to self-learning.
- ✓ innovative educational methods, such as scientific instructional pictures, the procedure application, and displaying an educational video that brings the material closer to the students' minds.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction to medical and Oral biology	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
2	2	Eukaryotes and prokaryotes	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
3	2	General and oral immunity	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4	2	Bacteria and oral diseases	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5	2	Genetics and its role In oral diseases	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
6	2	Simple epithelial tiss (tongue)	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
7	2	Stratified epithelial tissue	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
8	2	Epithelial tissue of th glands (glands salivary)	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

9	2	connective tissue (blood)	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
10	2	Muscle tissue	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
11	2	Nervous tissue	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12	2	Cell structure (oral mucosa)	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
13	2	Plasma membrane structure	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
14	2	Passage of materials cross Of the cell membrane	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
15	2	Cell cycle	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
16	Mid Term Examination				
17	2	Mitosis and meiosis	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	2	Cell energy	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	2	DNA & RNA structure	Medical biology		

19	2	Introduction to parasitology Types of parasites and hosts	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
20	2	General and oral Protozoa	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
21	2	Human *amoebas, E. histolytica, E.coli, E.gingivalis*	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
22	2	Flagellates, *Giardia lamblia, Trichomonas tenax, T.hominas, T.vaginalis*	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
23	22	*Leishmania* , cutaneous and vesiral	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
24	2	Sporozoa, *Plasmodium spp.*	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
25	2	*Toxoplasma gondii*	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
26	2	Nemathelminthes, *Ascaris lumbricoides,*	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
27	2	*Ancylostoma duodenale, Entrobius vermicularis*	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
28	2	Platyhelminthes, *Fasciola hepatica*	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

29	2	Platyhelminthes, *Fasciola hepatica*	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
30	2	*Schistosoma spp.*	Medical biology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
Total	60 hrs				

Laboratory sessions

Lab No.	Study unit title	Hours
1	**Laboratory safety**	**2**
2	**Parts of microscope**	**2**
3	**Types of cells**	**2**
4	**Simple epithelial tissue**	**2**
5	**Stratified epithelia tissue**	**2**
6	**Glandular epithelial tissue**	**2**
7	**Serous, Mucous, Sero-mucous cell glands**	**2**
8	**Proper connective tissue, Loose**	**2**
9	**Proper connective tissue, dense**	**2**
10	**Special connective tissue, type of cells**	**2**

11	**Cartilage, Hyaline, Elastic, Fibro**	**2**
12	**Compact and spongy bone**	**2**
13	**Human Blood, W.B.C , R.B.C and frog blood**	**2**
14	**Muscular tissue: Skeletal, cardiac and smooth muscles**	**2**
15	**Nerve cell**	**2**
16	**Central and peripheral nerve system**	**2**
17	**Spinal cord and meninges**	**2**
18	***Entamoeba histolytica , Entamoeba coli***	**2**
19	***Giardia lamblia , Trichomonas vaginalis Trichomonan tenax***	**2**
20	***Leishmania tropica,Leshmania donovani***	**2**
21	***Trypanosoma gambiense,T.rhodesiense***	**2**
22	***Plasmodium vivax, Toxoplasma gondii***	**2**
23	***Balantidium coli***	**2**
24	***Echinococcus granulosus,Taenia saginata Taenia solium***	**2**
25	***Ancylostoma, Ascaris , Entrobius***	**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**

11.Course Evaluation

First semester	15%
Mid. Term Exam.	20%
Second semester	15%
Annual pursuit degree	50%
Final exam degree	50%
Total	100

12.Learning and Teaching Resources

Main references (sources)	• Human biology , 8 edition • Cell biology ,3 edition.2017

Course Description Form

1. Course Name:
Dental Anatomy
2. Course Code:
104DA
3. Semester / Year:
2023– 2024
4. Description Preparation Date:
2023–2024
5. Available Attendance Forms:
weekly
6. Number of Credit Hours (Total) / Number of Units (Total)
(30 hour) Lecture , (60 hour) lab
7. Course administrator's name (mention all, if more than one name)
Name: Email:
8. Course Objectives

Course Objectives	• Giving the student a comprehensive practical program by training the students to sculpt teeth on wax molds
9. Teaching and Learning Strategies	
Strategy	• **A – Paying attention to the goals of tourism: 1– Formulating and programming information in a way that enables the student to record it and learn about the emotional pressures we endure.** • **2– Definition of the student's dental model.** **B – Technical objectives of the course: Training students in the process carving on wax molds based on the specific measurements of each tooth**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1.	2	Introduction Nomenclature Heterodent Diphyodont The Deciduous Teeth The Permanent Teeth Anterior and Posterior Teeth The Jaw	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
2.	2	Numbering Systems Universal notation .1 system. Palmer notation .2 system. Crown and Root Dental pulp. Anatomical crown. Surfaces and Ridges	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
3.	2	Anatomical Landmarks Cusp, Tubercle, Cingulum, Ridge, Fossa, Developmental groove, Pit	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
4.	2	Permanent Maxillary Central Incisor Characteristic features of incisor's crown Permanent Maxillary Central Incisor Principal identifying features	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
5.	2	Permanent Maxillary Lateral Incisor Principal identifying features(Labial Aspect, Mesial Aspect, Distal Aspect, Lingual Aspect, Incisal Aspect).	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams

		Variations from the typical form (Anomalies)			
6.	2	Permanent Mandibular Incisors Characteristic features of Permanent mandibular Incisors Permanent Mandibular Central Incisor Principal identifying features Permanent Mandibular Lateral Incisor Principal identifying features Some differences between maxillary and mandibular central incisors Main differences between maxillary central and lateral incisors	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
7.	2	Permanent Canines General Characteristic Features of the Canines The Permanent Maxillary Canine Principal Identifying Features The Permanent Mandibular Canine Principal Identifying Feature	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
8.	2	Permanent Maxillary Premolars Some characteristic features to all	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
9.	2	Permanent Mandibular Premolars Mandibular First Premolar Characteristics that resemble those of the mandibular canine. Characteristics that resemble those of the mandibular second premolar. Principal Identifying Features	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
10.	2	Permanent Mandibular Second Premolar Principal Identifying Features	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams

11.	2	Permanent Maxillary Molars Maxillary First Molar Principal Identifying Features Maxillary second Molar	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
12.	2	Permanent Mandibular Molars Mandibular First Molar Principal Identifying Features	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
13.	2	Permanent Mandibular Second Molar Principal Identifying Features Mandibular Third Molar Principal Identifying Features	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
14.	2	Tooth Development Sequential Order of Deciduous Teeth According to their Eruption Times Deciduous Teeth The Importance of Deciduous Teeth Maxillary Deciduous Teeth Mandibular Deciduous Teeth Principal Differences between Deciduous and Permanent Teeth	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
15.	2	Pulp Cavities Pulp Cavities of the Maxillary Teeth Pulp Cavities of the Mandibular Teeth	Dental anatomy	A theoretical lecture using Power Point	Short, semester, mid-year and final exams

Laboratory sessions

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

20	**Description, Carving & Finishing of the Occlusal Aspect of P.Mand. Right 1st Premolar.**	**2**
21	**Practical Training of Carving of P. Mand. Right 1st Premolar**	**2**
22	**Practical Exam. Of Carving of P. Mand. Right 1st Premolar**	**2**
23	**Description &Carving of the Buccal & Mesial Aspects of P. Max.Right 1st Molar.**	**2**
24	**Description, Carving & Finishing of the Occlusal Aspect of P. Max. Right 1st Molar.**	**2**
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**

11. Course Evaluation

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

First semester : 15 decree
Mid exam : 10 decree
Second semester : 15 decree
Final exam : 60 decree

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Woelfel's dental anatomy, its relevence dentistry7 th ed
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:
computer
2. Course Code
3. Semester / Year:
2023−2024
4. Description Preparation Date:
20/9/2023
5. Available Attendance Forms:
Actual mandatory attendance
6. Number of Credit Hours (Total) / Number of Units (Total)
30 theoretical hours and 60 practical hours
7. Course administrator's name (mention all, if more than one name)
Responsible for the theoretical and practical course Name: Assist.porf.Dr Rawaa Ismael Farhan Email: ralrikabi@uowasit.edu.iq

8. Course Objectives	
Course Objectives	**1- Introducing the student to the theoretical basics of the computer (Hardware and Software).** **2- practical excersice on Windows 10.** **3- Train students on the concepts of E-Learning using Google platform .** **4- practical exercise on Office 2016 applications(Word,Excel,Power point,Access).**

9. Teaching and Learning Strategies	
Strategy	1- Using practical examples 2- Project-based learning 3- Discussions and effective exchange of ideas 4- Use interactive resources and software applications 5- Enhancing cooperation and teamwork 6- Providing theoretical lessons paralleled by practical applications

	7- Encouraging self-exploration and continuous learning

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-8	3	Fundamentals of Computer: History of computer generations, Introduction about computer (Hardware and Software), computer structure, E-learning, Introduction to E-learning Google Classroom Platform, Google drive, Google forms, Online conferencing.	computer	Theoretical and practical lectures, practical application in the laboratory, the use of the group system to solve problems, and blended learning	1- Conducting theoretical and practical tests (daily and quarterly) 2- Seminars (assigning students to topics) 3-Using the group system to complete mini projects 4-Daily questions and discussions
9-16	3	Windows 10: Introduction about Windows, A look at Windows 10, Stating Windows 10, Working with a windows Program, working with files and folders, Using My computer, Working with Taskbar and Desktop, Using Windows Accessories, A look at Control Panel, Widows Explorer.	computer	Theoretical and practical lectures, practical application in the laboratory, the use of the group system to solve problems, and blended learning	1- Conducting theoretical and practical tests (daily and quarterly) 2- Seminars (assigning students to topics) 3-Using the group system to complete mini projects 4-Daily questions and discussions
17-22	3	Word 2016: Introduction about Microsoft Word2016 A look at Microsoft Word, Editing Document, Formatting Text, formatting paragraphs, proofing documents, Adding Tables, Inserting Graphic Elements, Controlling page Appearance.	computer	Theoretical and practical lectures, practical application in the laboratory, the use of the group system to solve problems, and blended learning	1- Conducting theoretical and practical tests (daily and quarterly) 2- Seminars (assigning students to topics) 3-Using the group system to complete mini projects 4-Daily questions and discussions

23-27	3	Excel 2016: Introduction abou Excels, A Look at Microsoft Excel, Modifying A Worksheet, performing Calculations, formatting a worksheet, developing a worl book, Printing Workbook Conte Customizing Lay	computer	Theoretical and practical lectures, practical application in the laboratory, the use of the group system to solve problems, and blended learning	1- Conducting theoretical and practical tests (daily and quarterly) 2- Seminars (assigning students to topics) 3-Using the group system to complete mini projects 4-Daily questions and discussions
28-30	3	Access 2016, Power point2016: Introduction about Microsoft Access, A look at Microsoft Access, Creating Data tables, properties of the fields, Querying the database, Designing Forms, producing reports, Introduction about Microsoft Power point, starting power point2016, Formatting text/Using graphics and Text, Manipulating the slides/Using Multimedia Elements, Power point Management.	computetr	Theoretical and practical lectures, practical application in the laboratory, the use of the group system to solve problems, and blended learning	1- Conducting theoretical and practical tests (daily and quarterly) 2- Seminars (assigning students to topics) 3-Using the group system to complete mini projects 4-Daily questions and discussions

11. Course Evaluation

- The annual course of 40 is divided into 20marks for the practical subject and 20 marks for the theoretical subject.
- Final out of 60

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	" Computer application in management ", Dr. P. S. Aithal.
Main references (sources)	"E-learning concepts and techniques", Mousa Afaneh, Vince Basile, Justin Bennett, Pamela Berman, Michael Bond.

Course Description Form

1. Course Name:

Human Rights

2. Course Code:

105HR

3. Semester / Year:

First Academic Year / First and Second Semester

4. Description Preparation Date:

05-10-2024

5. Available Attendance Forms:

Recording the student's attendance in Theoretical and Practical

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

30 hrs. for Theoretical
2units (Total)

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

Name: Assistant Lecturer bashar naeem ali
Email: bashar.ali@uowasit.edu.iq

8. Course Objectives

Course Objectives

At the end of the course the student will be able to:

1. The importance of human rights and democracy lies through the student's study of the most importan rights that came in international norms and laws as well as what came in the tolerant Islamic law.
2. Contribute to the protection, promotion and knowledge of human rights through both immediate and long-term action.

3. Enable the student to claim their human rights and how to preserve them.

1. **The student's knowledge of his legal obligations within the college.**

5. Enhancing the spirit of cooperation and brotherhood among students.

6. Inform students of all forms of political systems followed in the world and any of them are the most suitabl the application.

7. Integrate knowledge of those rights with duties.

8. Develop the thinking skills of all students.

9. Teaching and Learning Strategies

Strategy

- ✓ Method of delivering the lecture using PowerPoint
- ✓ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus to self-learning.
- ✓ innovative educational methods, such as scientific instructional pictures, the procedure application, and displaying an educational video that brings the material closer to the students' minds.

10. Course Structure

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

1	1	Human Rights in Ancient Civilizations	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
2	1	Human rights in religions Celestial	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
3	1	Human Rights in Sharia Islamic	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4	1	Human Rights Resources	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5	1	Universal Declaratio of Human Rights	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
6	1	International Covena on Human Rights	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
7	1	Constitution of the Republic Iraq 2005	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

8	1	Human rights guarantees Constitutional and judicial	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
9	1	Human rights guarantees in Islam	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
10	1	Human rights guarantees International	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
11	1	The role of regional organizations in Protection of human rights	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12	1	The future of human rights	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
13	1	Technological progre and its impact on Rights and freedoms	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
14	1	Globalization and human rights	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

15	1	Political Parties	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
16	Mid Term Examination				
17	1	Democracy	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	1	Manifestations of dir democracy Semi-direct	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	1	Representative system (representative) and its legal nature	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
20	1	Pillars of the representative system	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
21	1	Forms of the representative system	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
22	1	Parliament	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final

					exam.
23	1	Internal organization of the House of Representatives	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
24	1	The mechanism of the representative system and election	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
25	1	The concept of euphobia and its legal adaptation	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
26	1	Electorate	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
27	1	Forms of democracy	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
28	1	Constituencies	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
29	1	Direct and indirect euphoria	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final

					exam.
30	1	Secret Voting System and public voting	Human Rights	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
Total	30 hrs				

Laboratory sessions

Lab No.	Study unit title	Hours
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

27		
28		
29		
30		
Total		

11.Course Evaluation

First semester 10%
Mid. Term Exam10%
Second semester 10%
Annual pursuit degree 30%
Final exam degree 70%
Total 100

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	• •
	• •
	• • •

Course Description Form

1. Course Name:

English language/Medical terminology

2. Course Code:

109EL

3. Semester / Year:

Semester I and II / 1st Year

4. Description Preparation Date:

2024-2023

5. Available Attendance Forms:

Recording the student's attendance in Theoretical lectures

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

1hr per week.
Total:30 hours

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

Name: Sagia Abbas Gibar Aifari
Email: saifari@uowasit.edu.iq

8. Course Objectives

Course Objectives

At the end of the course the student will be able to:

Preparing the student to have a high level of Academic words for communication, which will help them in studying dentistry and text books.

9. Teaching and Learning Strategies

Strategy

- ✓ Method of delivering the lecture using PowerPoint
- ✓ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus to self-learning.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Prefixes and suffixes	English languag	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
2	1	Integumentary system	Medical terminology	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term

					exam and Final exam.
3	1	Muscular system	Medical terminology	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4	1	Respiratory system	Medical terminology	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5	1	Digestive system	Medical terminology	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
6	1	Nervous system	Medical terminology	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
7	1	Cardiovascular system	Medical terminology	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
8	1	Blood and lymph	Medical terminology	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
9	1	Immune system	Medical terminlogy	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term

					exam and Final exam.
10	1	Endocrine system	Medical terminology	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
11	1	Five sense	Medical terminology	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12	1	Genitourinary system	Medical terminology	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
13	1	Dental terminology part I	Medical terminology	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
14	1	Dental terminology part II	Medical terminology	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
15	1	Dental terminology part II	Medical terminology	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
16	Mid Term Examination				
17	1	Small talk	English languag	Power point	Attendance, Weekly Quizzes,

					Semester exam, Mid. Term exam and Final exam.
18	1	Common mistakes	English language	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
19	1	Passive voice	English language	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
20	1	Direct and indirect speech	English language	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
21	1	Synonyms in English	English language	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
22	1	Integrating a quotation into essay	English language	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
23	1	Prepositions in English Grammar with Examples	English language	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
24	1	Idioms and Phrases	English language	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term

					exam and Final exam.
25	1	Writing assignment	English language	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
26	1	Pronunciation rules	English language	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
27	1	Tenses	English language	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
28	1	Synonyms and Antonyms	English language	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
29	1	Paraphrasing	English language	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
30	1	Essay writing skills	English language	Power point	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
Total	30 hrs				

11.Course Evaluation

First semester 15%
Mid. Term Exam. 20%

Second semester	15%
Annual pursuit degree	50%
Final exam degree	50%
Total	100

12.Learning and Teaching Resources

Main references (sources)	• Headway-English course • Dental terminology 3 rd edition

Course Description Form

1. Course Name:
General Arabic language
2. Course Code:
214PH
3. Semester / Year:
Semester I and II / 1st Year
4. Description Preparation Date:
22-2-2024
5. Available Attendance Forms:
Recording the student's attendance in Theoretical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hrs. for Theoretical 0 hrs. for Practical 30 hrs. (Total)/ 1 units (Total)
7. Course administrator's name (mention all, if more than one name)
Name: Lecturer Dr. Badriah Naser Abed Email: alowaisi300@uowasit.edu.iq
8. Course Objectives
Course Objectives *At the end of the course the student will be able to:* 1. That the student grows up with a love for the Arabic language, the language of the Holy Qur'an, and learns about the beauties of the Arabic language and its literature. 2. Introducing the student to the words of the classical Arabic language, its proper structures and metho in an interesting and attractive way. 3. The student should take advantage of his free time by reading and going back to the library 4. Enabling the student to read correctly and to acquire the ability to use the language correctly in the process of communicating with others, such as speed and quality of delivery. 5. Developing the student's literary taste so that he understands the aesthetic aspects of speech styles, meanings, and images 6. Accustoming the student to the correct and clear expression of his thoughts and what comes under his senses in speech and writing, and the proper use of punctuation marks. 7. Developing the student's abilities and written spelling skills, proficiency in correct writing, and familiarity with Arabic grammar and grammar 8. Helping the student understand complex structures and ambiguous methods, enabling him to th accurately and conduct careful mental research, and working to advance the Arabic language and worl spread it.
9. Teaching and Learning Strategies
Strategy ✓ Method of delivering the lecture using PowerPoint ✓ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus to self-learning. ✓ innovative educational methods, such as scientific instructional pictures, the procedure application, and displaying an educational video that brings the material closer to the students' minds.

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	1	Al-Mutanabbi (The Life of the Poet with a Poem and Critical Commentary)	literature	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
2	1	Badr Shaker Al-Sayyab (his life with a poem and critical comment)	literature	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
3	1	Nazik Al-Malaika (Her Life with a Poem and critical comment)	literature	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4	1	Al-Jawahiri (His Life with Poem and Critical Commentary)	literature	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5	1	Nominal sentence	Grammar	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
6	1	Verbal sentence	Grammar	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

7	1	The subject	Grammar	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
8	1	The predicate	Grammar	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
9	1	Copiers	Grammar	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
10	1	Sub-primal parsing marks in the noun and the present tense verb	Grammar	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
11	1	Secondary markers in the noun and present tense verbs	Grammar	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12	1	Secondary Accusative markers	Grammar	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
13	1	Secondary Genitive case markers	Grammar	Power point, White board, Videos and	Attendance, Weekly Quizzes,

				smart screen	Semester exam, Mid. Term exam and Final exam.
14	1	Secondary Jussive case markers	Grammar	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
15	1	Derivatives	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
16	1				
17	1	The active participle and the exaggerated forms	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	1	The noun of object	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	1	Denuded and Augmented verb	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
20	1	Masculine , Feminine, and Marker of femininity	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final

					exam.
21	1	Defective noun	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
22	1	Plural of Defective noun	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
23	1	Abbreviated noun	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
24	1	Plural of Abbreviated noun	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
25	1	Prolonged noun	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
26	1	Plural of Prolonged noun	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
27	1	Broken Plural	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final

					exam.
28	1	Deletion and addition Letters that are deleted Letters that are added	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
29	1	Shortened EaLif, Extended EaLif, Open and Closed taa	Morphology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
30	1	The hamza and its rulings Punctuation marks	Dictation	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
Total	30 hrs				

Laboratory sessions

Lab No.	Study unit title	Hours
1		
2		
3		
4		
5		
6		

7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		

23		
24		
25		
26		
27		
28		
29		
30		
Total		**0**

11.Course Evaluation

First semester	15%
Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60%
Total	100

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	• The book "Jami' al-Durs al-Arabi" by Al-Ghalayini
Main references (sources)	• Explanation of Ibn Aqeel on Alfiyyah Ibn Malik
Recommended books and references (scientific journals, reports...)	• The adequate grammar book by Abbas Hassan
Electronic References, Websites	/

Course Description Form

1. Course Name:
Prosthodontics
2. Course Code:
/ 210PR
3. Semester / Year:
2023– 2024
4. Description Preparation Date:
2023–2024
5. Available Attendance Forms:
weekly
6. Number of Credit Hours (Total) / Number of Units (Total)
(30 hour) Lecture , (120 hour) lab
7. Course administrator's name (mention all, if more than one name)
Name: Email:
8. Course Objectives

Course Objectives	**• Introducing the dental industry in general, as it is one of the most important subjects that the student will continue to study** **• For the next four years** **• 2– Introducing the terms that will be used in explaining the course so that the student can understand them properly** **• the correct** **• 3– Practical laboratory steps for manufacturing the complete kit and practical training within laboratories for use** **• Adapting the materials used in making the kit**

9. Teaching and Learning Strategies	
Strategy	, learning and evaluation methods

	A- Cognitive objectives - Giving the necessary information to deal with the materials involved in the dental manufacturing process and the manufacture of complete dentures. especially . Make the student knowledgeable and able to master all the laboratory steps for making the complete kit. B - The skills objectives of the course B1 - Description of the tools, devices, and materials related to the subject of making the kit. B2 - Teaching the student how to use it and following him while working, step by step Teaching and learning methods: LCD, lecture, show, ,Data digital cameras. Live explanation and dealing with all types of subjects mentioned within the prescribed curriculum in front of the student after dividing them into Totals based on the number of days in the week and a detailed explanation of all steps. Evaluation methods: Practical evaluation of each step of the denture Weekly, monthly, semi-annual and annual exams C- Emotional and value-based goals 1- Solving problems 2- Able to handle dental materials and adapt them with complete skill to facilitate and master the manufacture of dentures. Laboratory and immediate response to students' questions and inquiries, Part 3 - Live, clear, detailed explanation and direct interaction. 4- When making the kit, students will face some difficulties because they deal with dental materials for the first time Which stimulates the student's creativity and talent in making kits 5- Providing an atmosphere of group work and teaching, which puts the student in a peaceful psychological environment in addition to making him alert. For all the lapses and mistakes that he himself or one of his colleagues may make Teaching and learning methods: Theoretical lectures, training and practical explanation Observing the student's response in the practical explanation halls Evaluation methods: Theoretical exams Evaluation of each step of making the kit

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1.	**1**	Introduction	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
2.	**1**	Anatomical landmarks	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
3.	**1**	Anatomical landmarks	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
4.	**1**	Complete Denture Impression	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
5.	**1**	Complete Denture Impression	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
6.	**1**	Complete Denture Impression	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
7.	**1**	Record Base	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
8.	**1**	Occlusion Rims	**prosthodontics**	**A theoretical lecture**	**Short, semester, mid-year and final**

				using Power Point	exams
9.	1	Anatomy And Physiology Of Temporomandibular Joint	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
10.	1	Anatomy And Physiology Of Temporomandibular Joint	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
11.	1	Maxillomandibular relation	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
12.	1	Methods Of Recording Vertical Relation	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
13.	1	Horizontal Jaw Relation	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
14.	1	Dental Articulators	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
15.	1	Face – Bow	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
16.	1	Mounting	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams

17.	1	Selection Of Artificial Teeth	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
18.	1	Selection Of Posterior Teeth	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
19.	1	Arrangement Of Artificial Teeth	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
20.	1	Arrangement Of Posterior Teeth	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
21.	1	Waxing And Carving	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
22.	1	Complete Denture Occlusion	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
23.	1	Complete Denture Occlusion	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
24.	1	Processing Of The Denture (Flasking)	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
25.	1	Occlusal Correction	prosthodontics	A theoretical lecture using Power	Short, semester, mid–year and final exams

				Point	
26.	1	Finishing And Polishing Of Complete Denture	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
27.	1	Repair Of Complete Denture	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
28.	1	Repair Of Complete Denture	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
29.	1	Relining And Rebasing	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams
30.	1	Relining And Rebasing	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid–year and final exams

1. Course Evaluation
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc **First semester : 15 decree** **Mid exam : 10 decree** **Second semester : 15 decree** **Final exam : 60 decree**

Learning and Teaching Resources	
Syllabus of complete denture (text book of complete denture) ✓ Dental laboratory technology for removable prosthodontics ✓ Iraqi virtual library ✓ Articles • S. Yamashita, M. Shimizu, and H. Katada, "A newly proposed method to predict optimum occlusal vertical dimension," Journal of Prosthodontics, vol. 24, no. 4, pp. 287–290, 2015. • J. Abduo and K. Lyons, "Clinical considerations for increasing occlusal vertical dimension: a review," Australian Dental Journal, vol. 57, no. 1, pp. 2– 10, 2012 • R. Matsuda, Y. Yoneyama, M. Morokuma, and C. Ohkubo, "The influence of vertical dimension of occlusion changes on the electroencephalograms of complete denture wearers," Journal of Prosthodontic Research, vol. 58, no. 2, pp. 121–126, 2014	**Required textbooks (curricular books, if any)**
Iraqi virtual library	**Main references (sources)**
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

1. Course Name:
Dental material
2. Course Code:
209DM
3. Semester / Year:
Semester I and II/ second year
4. Description Preparation Date:
2024/3/2
5. Available Attendance Forms:
Recording the student's attendance in Theoretical and labratory lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hrs. for theory 60 hrs. for labratory 90 hrs.total/ 4 unit
7. Course administrator's name (mention all, if more than one name)
Name: Email:
8. Course Objectives

Course Objectives	● **Learn the physical, chemical a mechanical properties of materials used dentistry** ● **learn the necessary skills for handling th material** ● **Learn How Correct and adapt th materials**
9. Teaching and Learning Strategies	
Strategy	● Presenting lectures using PowerPoint ● Continuous discussion by asking questions and answers in t hall and motivating the student to self-think and thus se learning. ● Innovative educational methods, such as scientific educatio pictures, applying procedures, and showing an educatio video ● Learn in lab how to used and handling the dental material dentistry

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	**1**	Introduction - Definition - Importance and classification.	Dental material	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
2 ,3	**3**	Dental materials properties - Physical - Chemical - Mechanica - Biological	Dental material	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4 ,5	**4**	Impression materials Classificatio - Indication - Usage	Dental material	Power point, White board, Videos and smart screen Demonstration	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
6 ,7 ,8	**4**	Gypsum products - Types - Indication - Usage	Dental material	Power point, White board, Videos and smart screen Demonstration	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
9	**1**	Investments - Types - Indication - Usage	Dental material	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

10	**1**	Waxes - Types - Indication - Usage	Dental material	Power point, White board, Videos and smart screen Demonstration	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
11, 12 ,13	**3**	Metallic dental materials Precious,non-precious, steel and metallic denture base materials	Dental material	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
14 , 15 16	**4**	Polymers Non metallic denture base materials	Dental material	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
17, 18 19	**4**	Filling materials - Types - Indication - Usage	Dental material	Power point, White board, Videos and smart screen Demonstration	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
20 ,21	**2**	- Cements and temporary filling materials - Types - Indication - Usage	Dental material	Power point, White board, Videos and smart screen Demonstration	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
22	**1**	Implant dental materials (new) 1 - Types - Indication - Usage	Dental material	Power point, White board, Videos and smart screen Demonstration	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

23	**1**	Polishing and abrasive dental materials - Types - Indication - Usage	Dental material	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
24	**1**	Safety dental materials handlin (new)	Dental material	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
		30 hrs. For theory 60 hrs. For labratory			
Total		90 hrs.			

11. Course Evaluate

First semester 15%
Mid. Term Exam. 10%
Second semester 15%
Annual pursuit degree 40%
Final exam degree 60%
Total 100

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Phillips applied dental material Restorative dental material Dental material their selection a use
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

13_Titil of labratory

Week	Required Learning Outcomes of labratory	Hours
1	Introduction and physical properties of dental material	2
2	Mechanical properties (stress strain curve)	2
3	Showing different types of gypsum materials (plaster and stone)	2
4	Steps of mixing plaster and demonstrate the steps of setting	2
5	mpression plaster, demonstrate the manipulation of impression compound	2
6	Zinc oxide impression material and agar impression demonstrate the mixing of zinc oxide impression	2
7	Alginate impression (elastic impression) showing the trays used and the mixing of alginate and water according to manufacturer instructions	2
8	Polysulphide, condensation and addition silicon\mixing of heavy body and light body	2
9	Polyether, hybrid impression, digital impression	2
10	Showing different types of wax (denture base plate, denture casting wax and others	2
11	Demonstrate how to use wax material and its manipulation	2
12	Introduction to polymers	2
13	Different types of denture base materials(heat, cold and light activated polymers) demonstrate the mixing of polymer and monomer	2

14	Thermoplastic polymers (flexible denture base material)	2
15	Investment materials (showing the method of the investment)	2
16	Introduction to cement materials	2
17	Showing different types of cement materials and the method of mixing of cement	2
18	Temporary filling (use and manipulation)	2
19	Introduction to metal and metal alloy	2
20	Showing the different types of metal and metal alloy	2
21	Introduction to crown and bridge material	2
22	Introduction to filling material	2
23	Amalgam filling showing the amalgam capsules and mixing of amalgam	2
24	Composite filing (chemical and light activated)	2
25	Micro filled, hybrid, and nano-composite	2
26	Demonstrate the setting of chemical and light activated composite filling material	2
27	Showing different types of preventive materials (tooth pastes, gargles. Mouth wash fluoride varnishes and resin sealers)	2
28	Demonstrate the obturating materials (Gutta percha, sealers) and endodontic instruments	2
29	Finishing and polishing materials	2
30	Relining materials	2
Total		60 hrs.

Course Description Form

1. Course Name:	
Oral Histology	
2. Course Code:	
3. Semester / Year:	
2023−2024	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 Theoretical, 60 Practical	
7. Course administrator's name (mention all, if more than one name)	
Khalid Thamer	
8. Course Objectives	
Course Objectives	1- Enabling students to understand and know the fetal development of the head and chest area 2- Enabling students to obtain knowledge of the layers of teeth, their importance, structure and growth 3- Enabling students to know some of the methods used to examine various types of tissue samples 4- Enabling students to identify the rest of the oral tissues 5- Enabling students to recognize the stages of tooth growth and appearance
9. Teaching and Learning Strategies	
Strategy	• Increasing the student's ability to read histological slides of teeth,bones and surrounding tissue. • Increase the student's knowledge of how to prepare tissue slides. • Developing the student's skill to distinguish between pathological and non-pathological tissue conditions.

10. Course Structure

Evaluating method	Learning method	Unit or subject name	Hours	Week
Exams and Reports	Theoretical Lectures and Practical histology slides	**Ovulation and fertilization**	**2 Theoretical 2 Practical**	1,2
=	=	**Second week of fertilization/dimicrobial stratum**	**=**	3,4
=	=	**The third week of fertilization of the :trilamina germ layer stomach and nervous**	**=**	5,6
=	=	**Growth of the face and neck/pharyngeal arch and incision**	**=**	7,8
=	=	**Congenital facial malformations**	**=**	9,10
=	=	**Tongue growth and congenital malformations**	**=**	11,12
=	=	**Uvula growth and congenital malformations**	**=**	13,14
=	=	**Slide preparation**	**=**	15,16
=	=	**Tooth growth and tooth growth disorders**	**=**	17,18
=	=	**Stages of dentin formation, Dentin composition**	**=**	19,20
=	=	**Tooth enamel,enamel composition and structure**	**=**	21,22
=	=	**Clinical considerations of dentin and enamel**	**=**	23,24
=	=	**Tooth pulp**	**=**	25, 26
=	=	**Clinical considerations of cement layer**	**=**	27, 29.30

11. Course Evaluation

Daily preparation, dailyoral, monthly, or written exams, reports .

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	- Orban's oral Histology and Embryology
Main references (sources)	1. Ten Cates Oral Histology development, structures and function Antonio Nanci 9th Edition 2017, Elsevier 2. Orban's Oral Histology and embryology . Kumer. 14 th Edition 2015, Elsevier
Recommended books and references (scientific journals, reports…)	Oral anatomy, histology and embryology. Berkovitiz, Holand, Moxham. 5 th edition.2018, Elsevier
Electronic References, Websites	

Course Description Form

1. Course Name:
General Histology
2. Course Code:
None
3. Semester / Year:
Yearly
4. Description Preparation Date:
15/1/2024
5. Available Attendance Forms:
Fully attendance in campus
6. Number of Credit Hours (Total) / Number of Units (Total)
120 hours/ 6 credits
7. Course administrator's name (mention all, if more than one name)
Name: Assist. Prof. Dr. Sattar Jabbar Jasim Email:salshaeli@uowasit.edu.iq Name: Email: Name: Email:
8. Course Objectives

Course Objectives	• Provided all necessary information regarding slid preparation and inspection to student. • Identify the histological structures in the body and determine the histological structure, location, and function of the various cells, tissues, and organs in the body. • Students training about the histological structures in the body. • Provided specific skills to the student including critical thinking and analysis, describe the histological structures, locations, conclusion, comparing and contrast, etc.…

9. Teaching and Learning Strategies

Strategy	• PDF lectures • PPT presentation • Images and videos • Training using samples • Small group training

	● Student presentation and discussion

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	The student able to understand and identify the main histological structure of the cell and main basic tissues in the body	**Cells, Basic tissue**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
2	4	The student able to understand the epithelial tissue and determine the histological structure, location, function of various classified epithelial tissue with their junctions and cell surface development	**Epithelial Tissue**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
3	4	The student able to understand the connective tissue and determine the histological structure, location, function, components of connective tissue in the body.	**Connective Tissue**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
4	4	The student able to understand parts of respiratory system and determine the main histological structure of it including nose, nasal cavity, nasopharynx, larynx, trachea, and lung. Also main histological structure of respiratory part including respiratory bronchioles, alveolar duct, sac, and alveoli	**Respiratory System: respiratory portion**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
5	4	The student able to understand parts of respiratory system and determine the main histological structure of it including nose, nasal cavity, nasopharynx, larynx, trachea, and lung. Also, main histological structure of respiratory part	**Respiratory System: respiratory portion**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

		including respiratory bronchioles, alveolar duct, sac, and alveoli			
6	4	The student able to understand parts of urinary system and determine the main histological structure of it including kidney, nephron, glomerulus, renal pelvis, ureter, urinary bladder and urethra.	**Urinary System: kidney nephrons, collecting tubules and ducts**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
7	4	The student able to understand parts of urinary system and determine the main histological structure of it including kidney, nephron, glomerulus, renal pelvis, ureter, urinary bladder and urethra.	**Urinary System: ureter, urinary bladder, and male and female urethra**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
8	4	The student able to understand all parts of integumentary system and determine the main histological structure of skin both epidermis and dermis	**Integumentary System: Skin: epidermis, dermis**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
9	4	The student able to understand and determine the main histological structure of skin glands both sebaceous and sweat glands, histological structure of hair and nails.	**Integumentary System: skin glands, hair, and nails**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
10	4	The student able to understand the hemopoiesis and determine the main histological structure and tissue in bone marrow	**Hemopoiesis: bone marrow**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
11	4	The student able to understand and determine the main histological structure and process of various blood cell formation	**Hemopoiesis: blood cells**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
12	4	The student able to understand and determine the main histological structure of the heart, artery, capillary, veins, and	**Circulatory System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

		how the blood reaches to the lung and tissue.			
13	4	The student able to understand and determine the main histological structure of the heart, artery, capillary, veins, and how the blood reaches to the lung and tissue.	**Circulatory System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
14	4	The student able to understand and determine the main histological structure of the lymphatic tissue including lymph node, thymus, spleen, mucosal associated lymphoid tissues, classification of lymphoid tissue, vessels of lymphatic system with antibody and type of immunity	**Lymphoid System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
15	4	The student able to understand and determine the main histological structure of the lymphatic tissue including lymph node, thymus, spleen, mucosal associated lymphoid tissues, classification of lymphoid tissue, vessels of lymphatic system with antibody and type of immunity	**Lymphoid System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
16	4	The student able to understand and determine the main histological structure of the nervous system including neuron cell structure, function, classification and glial cell structure and function. Also, histological structure of central nervous system including brain and spinal cord. Also, peripheral nervous system histological structure including cranial and spinal nerves with ganglion, and sympathetic	**Nervous System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

		system including sympathetic and parasympathetic.			
17	4	The student able to understand and determine the main histological structure of the nervous system including neuron cell structure, function, classification and glial cell structure and function. Also, histological structure of central nervous system including brain and spinal cord. Also, peripheral nervous system histological structure including cranial and spinal nerves with ganglion, and sympathetic system including sympathetic and parasympathetic.	**Nervous System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
18	4	The student able to understand the endocrine secretion mode and type of secretion and determine the main histological structure of the pituitary gland, adrenal gland, islets of langerhans, pineal gland, testes, ovarian follicles, yellow body, thyroid and parathyroid gland	**Endocrine System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
19	4	The student able to understand the endocrine secretion mode and type of secretion and determine the main histological structure of the pituitary gland, adrenal gland, islets of langerhans, pineal gland, testes, ovarian follicles, yellow body, thyroid and parathyroid gland	**Endocrine System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
20	4	The student able to understand the endocrine secretion mode and type of secretion and	**Endocrine System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

		determine the main histological structure of the pituitary gland, adrenal gland, islets of langerhans, pineal gland, testes, ovarian follicles, yellow body, thyroid and parathyroid gland			
21	4	The student able to understand the parts of digestive system and their function and determine the main histological structure of the lips, oral cavity and associated structure like teeth, tongue, buccal, oropharynx, esophagus, stomach and its part, small intestine and its part, large intestine and its part, rectum, and all associated digestive gland including liver, pancreas, salivary gland, gallbladder.	**Digestive System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, 3and final exam
22	4	The student able to understand the parts of digestive system and their function and determine the main histological structure of the lips, oral cavity and associated structure like teeth, tongue, buccal, oropharynx, esophagus, stomach and its part, small intestine and its part, large intestine and its part, rectum, and all associated digestive gland including liver, pancreas, salivary gland, gallbladder.	**Digestive System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
23	4	The student able to understand the parts of digestive system and their function and determine the main histological structure of the lips, oral cavity and associated structure like teeth, tongue, buccal, oropharynx, esophagus, stomach and its part, small intestine and its part,	**Digestive System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

		large intestine and its part, rectum, and all associated digestive gland including liver, pancreas, salivary gland, gallbladder.			
24	4	The student able to understand the parts of digestive system and their function and determine the main histological structure of the lips, oral cavity and associated structure like teeth, tongue, buccal, oropharynx, esophagus, stomach and its part, small intestine and its part, large intestine and its part, rectum, and all associated digestive gland including liver, pancreas, salivary gland, gallbladder.	**Digestive System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
25	4	The student able to understand the parts and function of male reproductive system and determine the main histological structure of it including testes, ductus deference, epididymis, seminiferous tubules and sperm production, male organ histology, associated gland histology and function including prostate, seminal vesical, bulbourethral gland.	**Male Reproductive System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
26	4	The student able to understand the parts and function of male reproductive system and determine the main histological structure of it including testes, ductus deference, epididymis, seminiferous tubules and sperm production, male organ histology, associated gland histology and function including prostate, seminal vesical, bulbourethral gland.	**Male Reproductive System**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

27	4	The student able to understand the parts and function of female reproductive system and determine the main histological structure of it including ovary, ovarian follicles, producing ovum, fallopian tube, uterus, vagina, and external genitalia	**Female reproductive system**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
28	4	The student able to understand the parts and function of female reproductive system and determine the main histological structure of it including ovary, ovarian follicles, producing ovum, fallopian tube, uterus, vagina, and external genitalia	**Female reproductive system**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
29	4	The student able to understand and determine the main histological structure and function of the eye with its layers and cells.	**Special Sense Organs: eye**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
30	4	The student able to understand and determine the main histological structure and function of the ear with its parts, tissue and cells.	**Special Sense Organs: ear**	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

11. Course Evaluation

Distributing the score out of 100:
The 1st and 2nd semesters: 30 degree which distributed as follow:
Practical 20 degree (12 monthly exam and 8 degree for attendance, quizzes, discussion and presentation, scientific participation).
Theory 10 degree (5 monthly exam and 5 for attendance, quizzes, discussion, presentation and scientific participation).
Theory midd-year exam 10 degree
Final exam 60 degree (40 theory and 20 practical).

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Junqueira's Basic Histology text& atlasby Anthony L. MESCHER
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:

Physiology

2. Course Code:

214PH

3. Semester / Year:

Semester I and II / 2nd Year

4. Description Preparation Date:

03-10-2023

5. Available Attendance Forms:

Recording the student's attendance in Theoretical and Practical lectures

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

60 hrs. for Theoretical
60 hrs. for Practical
120 hrs. (Total)/ 6 units (Total)

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

Name: Assist. Prof. Dr. Sarhan Rashid Sarhan
Email:srashid@uowasit.edu.iq

8. Course Objectives

Course Objectives

At the end of the course the student will be able to:

1. Demonstrate an understanding of the physiology and basic regulatory concepts related to the functioning of life processes. The life processes to be studied in 214PH will include Cell Physiology, Neurophysiology, Endocrinology, Muscle Physiology, and Immunology.
2. Name the key physiology themes (homeostasis & regulation, structure/function relationships, compartmentation, biological energy transformation, and communication & information flow), and be able to provide or recognize examples of each from the differentorgan systems.
3. Discuss the significance of maintaining homeostasis to the survival of the whole organism.
4. Demonstrate the use of the scientific method and quantitative reasoning to field of physiology.
5. Demonstrate a mechanistic (how) and teleological (why) understanding of the levels of organization comprising the human organism.
6. Demonstrate an understanding of the physiology and basic regulatory concepts of the organ systems associated with this course and the mechanisms that allow the body to carry out those functions, and predict how a perturbation (e.g., disease, experimental manipulation) will alter function.
7. Integrate knowledge of the major systems to outline how these systems interact to maintain homeostasis.
8. Develop critical thinking skills in order to be able to think like a physiologist, and solve physiologically-relevant problems.

9. Teaching and Learning Strategies

Strategy

- ✓ Method of delivering the lecture using PowerPoint
- ✓ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus to self-learning.
- ✓ innovative educational methods, such as scientific instructional pictures, the procedure application, and displaying an educational video that brings the material closer to the students' minds.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Function organization of the human body	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
2	2	Body fluid Edema	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
3	2	Homeostasis and Transport across cell membrane	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4	2	ORAL CAVITY and Salivary Glands	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5	2	Salivary functions and Regulation of Salivary Secretion	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
6	2	BLOOD Red blood cells	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term

					exam and Final exam.
7	2	White Blood Cells	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
8	2	Hemoglobin	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
9	2	Blood groups	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
10	2	Hemostasis and blood coagulation	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
11	2	Cardiovascular system: Blood vessels	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12	2	Cardiovascular system: Blood pressure	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
13	2	Cardiovascular system (Electrocardiogram, Hemorrhage, Circulatory Shock and	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term

		Heart Failure			exam and Final exam.
14	2	Respiratory system	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
15	2	Respiratory system: Lung volumes and capacities	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
16	Mid Term Examination				
17	2	SPECIAL SENSATION: Vision, Hearing, taste & smell	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	2	Temperature of the Body	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	2	Urinary system	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
20	2	Urinary system: Urine formation	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
21	2	Endocrine System	Physiology	Power point, White board, Videos and	Attendance, Weekly Quizzes,

				smart screen	Semester exam, Mid. Term exam and Final exam.
22	2	Major Endocrine Glands	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
23	22	Digestive system	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
24	2	Digestive system II	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
25	2	Muscular system: Muscle structure	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
26	2	Muscular system: Tone , contraction	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
27	2	Nervous System: Nerve impulse, synapses	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
28	2	Nervous System	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term

					exam and Final exam.
29	2	Reproductive system Aging & reproductive system	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
30	2	Aviation and Deep physiology Nutrition and metabolism	Physiology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
Total	60 hrs				

Laboratory sessions

Lab No.	Study unit title	Hours
1	**Microscope**	**2**
2	**Collection of Blood Samples**	**2**
3	**Blood Smears**	**2**
4	**Functions of Saliva & Taste Sensation**	**2**
5	**Stimulation and collection of salivary secretion**	**2**
6	**Separation of blood samples**	**2**
7	**Differential WBCs**	**2**
8	**Total Count of WBCs**	**2**

9	**Total Count of RBCs**	**2**
10	**Blood groups**	**2**
11	**Estimation of Hemoglobin**	**2**
12	**Bleeding and clotting time**	**2**
13	**Self-Monitoring of blood glucose test**	**2**
14	**Measurement of blood pressure &pulse rate**	**2**
15	**Effect of exercise on blood pressure and respiratory rate**	**2**
16	**Mid Exam**	**2**
17	**Physiology of vision test**	**2**
18	**Physiology of hearing test**	**2**
19	**Physiology of Smell sensation**	**2**
20	**Measurement of body temperature**	**2**
21	**Thyroid function (Body mass index)**	**2**
22	**Thyroid function (Body mass index)**	**2**
23	**Resuscitation &Artificial respiration**	**2**
24	**Resuscitation &Artificial respiration**	**2**

25	**Physiology of Skeletal muscles**	**2**
26	**Physiology of Skeletal muscles**	**2**
27	**Physiology of Skeletal muscles**	**2**
28	**Examination of reflexes (Motor Function)**	**2**
29	**Regulation of the heart**	**2**
30	**Seminars and examinations**	**2**
Total		**60**

11.Course Evaluation

First semester	15%
Mid. Term Exam.	20%
Second semester	15%
Annual pursuit degree	50%
Final exam degree	50%
Total	100

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	• Medical Physiology 4 th edition • Essentials of physiology for dental students
Main references (sources)	• Berny& Levy Physiology (2018) • Cardiovascular physiology • Cell physiology sourcebook
Recommended books and references (scientific journals, reports...)	• Elsevier's Integrated physiology • Gale Virtual Reference Library for Medicine • Guyton and Hall Textbook of Medical Physiolo
Electronic References, Websites	Harvard Physiology Online https://teachmephysiology.com/

Course Description Form

1. Course Name:
Human Anatomy/ Grade two
2. Course Code:
None
3. Semester / Year:
Yearly
4. Description Preparation Date:
15/1/2024
5. Available Attendance Forms:
Fully in compass
6. Number of Credit Hours (Total) / Number of Units (Total)
90 hours/ 4 credit
7. Course administrator's name (mention all, if more than one name)
Name: Assist. Prof. Dr. Sattar Jabbar Jasim Email: salshaeli@uowasit.edu.iq
8. Course Objectives

Course Objectives	• Knowledge the anatomical structures of head and neck. • Identify the anatomical location, function, and structure that located in the head and neck. • Student training about the anatomical location, function, structurethat located in thehead and neck. • Provided specific skills to the student including critical thinking and analysis, describe the anatomical locations, conclusion, comparing and contrast, etc.…
Teaching and Learning Strategies	
Strategy	• PDF lectures • PPT presentation • Images and videos • Training using samples • Small group training • Student presentation and discussion

9. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	The student able to identify the scalp layers, muscles, sensory innervation, blood supply and some clinical notes	Scalp: Layers of the scalp, Muscles of the scalp, Sensory Nerve Supply of the Scalp, Arterial Supply of the Scalp. Venous Drainage of the Scalp, Lymph Drainage of the Scalp, Clinical Notes	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
2	3	The student able to identify the scalp layers, muscles, sensory innervation, blood supply and some clinical notes	Scalp: Layers of the scalp, Muscles of the scalp, Sensory Nerve Supply of the Scalp, Arterial Supply of the Scalp. Venous Drainage of the Scalp, Lymph Drainage of the Scalp, Clinical Notes	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
3	3	The student able to understand and identify the main anatomical structure of orbital region including eyelids, lacrimal apparatus, opening into orbital cavity, structure of eye, muscles of eye and blood supply with clinical notes	The orbital region: Eyelids, Movements of the Eyelids, Lacrimal Apparatus, Openings into the Orbital Cavity, Nerves of the Orbit, Blood and Lymph Vessels of the Orbit, Structure of the Eye, Clinical Notes	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
4	3	The student able to understand and identify the main anatomical structure of orbital region including eyelids, lacrimal apparatus, opening into orbital cavity, structure of eye, muscles of eye and blood supply with clinical notes	The orbital region: Eyelids, Movements of the Eyelids, Lacrimal Apparatus, Openings into the Orbital Cavity, Nerves of the Orbit, Blood and Lymph Vessels of the Orbit, Structure of the Eye, Clinical Notes	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
5	3	The student able to identify the main basic anatomical structures of nose with blood supply, structure of nasal cavity, mucous membrane, nerve supply of the nasal cavity, blood supply of the nasal cavity. Structure of paranasal sinuses with mucous drainage, and some clinical notes	The Nasal region: The Nose, External Nose, Nerve Supply of the External Nose, Blood Supply and Venous Drainage of the External Nose, Nasal Cavity, Mucous Membrane of the Nasal Cavity, Nerve Supply of the Nasal Cavity, Blood Supply to the Nasal Cavity, Venous Drainage of the Nasal Cavity, Lymph Drainage of the Nasal Cavity, The Paranasal Sinuses, Drainage of Mucus and Functions of Paranasal Sinuses, Clinical Notes	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
6	3	The student able to determine the anatomical structure and course of	Mandibular nerve: Introduction, Branches of the Mandibular Nerve,	Lectures, PPT, description and	Weekly quizzes, discussion, monthly exams,

		mandibular nerve and its main branches with structure of otic ganglion with some clinical notes	Otic Ganglion, Clinical Notes	training on samples	mid-year exam, and final exam
7	3	The student able to determine the cranial bones of skull and their structure and relation with other bones and main structures that formed by them	Face: Skin of the Face, Muscles of the Face (Muscles of Facial Expression), Sensory Nerves of the Face, Arterial Supply of the Face, venous drainage of the Face, Lymphatic drainage of the face, Facial nerve	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
8	3	The student able to determine the anatomy of facial bones of the skull, facial muscles, sensory nerve supply, arterial supply, venous drainage and lymphatic drainage, and anatomical structure and course with main branches of facial nerve	Face: Skin of the Face, Muscles of the Face (Muscles of Facial Expression), Sensory Nerves of the Face, Arterial Supply of the Face, venous drainage of the Face, Lymphatic drainage of the face, Facial nerve	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
9	3	The student able to determine the anatomy of lips, oral cavity, vestibule and oral cavity proper with sensory innervation. Structure of hard and soft palate, muscles of soft palate, and palatoglossal and pharyngeal arches	Oral cavity: The Lips, The oral Cavity vestibule and Proper, Sensory innervation of the Mouth, Hard Palate & Soft palate, Muscles of the Soft Palate, Palatoglossal Arch & Palatopharyngeal Arch	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
10	3	The student able to determine the anatomy of lips, oral cavity, vestibule and oral cavity proper with sensory innervation. Structure of hard and soft palate, muscles of soft palate, and palatoglossal and pharyngeal arches	Oral cavity: The Lips, The oral Cavity vestibule and Proper, Sensory innervation of the Mouth, Hard Palate & Soft palate, Muscles of the Soft Palate, Palatoglossal Arch & Palatopharyngeal Arch	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
11	3	The student able to identify the main structure of the tongue including anatomical description of muscles, mucous membrane and movement	Tongue: Mucous Membrane of the Tongue, Muscles of the Tongue, Movements of the Tongue	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
12	3	The student able to understand the temporal region and identify the anatomical main structure of temporal and infratemporal fossae and the foremania and fissures to communicate with various structures also anatomy of mastication muscles	Temporal region: The temporal fossa anatomy, The infratemporal fossa, Communications, muscles of mastication	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

13	3	The student able to understand parotid region and identify the main structure of parotid gland and its duct, innervation, blood supply, venous and lymphatic drainage, also anatomy of buccal pad with some clinical notes	Parotid gland: Parotid Region (Boundaries), Parotid Gland, Parotid Duct, Innervation of Parotid Gland and Related Structures, Arterial Supply, Venous Drainage, Lymph Drainage, The Buccal Pad of Fat, Clinical Notes	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
14	3	The student able to understand parotid region and identify the main structure of parotid gland and its duct, innervation, blood supply, venous and lymphatic drainage, also anatomy of buccal pad with some clinical notes	Parotid gland: Parotid Region (Boundaries), Parotid Gland, Parotid Duct, Innervation of Parotid Gland and Related Structures, Arterial Supply, Venous Drainage, Lymph Drainage, The Buccal Pad of Fat, Clinical Notes	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
15	3	The student able to determine the main anatomical structure of pterygopalatine fossa including binderies, communication, and opening, also anatomy of maxillary nerve and its main branches with branches of pterygopalatine ganglion and content of the fossa.	The Pterygopalatine fossa: Boundaries, Communications and openings, Maxillary nerve, Branches from the pterygopalatine ganglion, the pterygopalatine ganglion, the veins of the pterygopalatine fossa	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
16	3	The student able to understand temporomandibular joint and identify the main anatomical structure of it including articular disk, tissue, capsule, synovial membrane and ligaments, nerve and vascular supply, TMJ relation and some clinical notes.	Temporomandibular joint: Introduction, The Articular Disk, Retro discal Tissue, Capsule, Synovial Membrane, Ligaments, Nerve Supply, Vascular Supply, Movements, Important Relations of the Temporomandibular Joint, Clinical Notes	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
17	3	The student able to understand temporomandibular joint and identify the main anatomical structure of it including articular disk, tissue, capsule, synovial membrane and ligaments, nerve and vascular supply, TMJ relation and some clinical notes.	Temporomandibular joint: Introduction, The Articular Disk, Retro discal Tissue, Capsule, Synovial Membrane, Ligaments, Nerve Supply, Vascular Supply, Movements, Important Relations of the Temporomandibular Joint, Clinical Notes	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
18	3	The student able to identify the main anatomical structures of neck including skin, fascia, superficial and	The neck: Overview, Skin of the Neck, Fasciae of the Neck, Superficial Cervical Fascia, Deep Cervical Fascia, Cervical	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

		deep cervical fascia, ligaments, muscles, cervical plexus, bones, blood supply, and main muscles of the neck.	Ligaments, Muscles of the Neck, Cervical Plexus, Bones of Neck, Blood Supply, Key Neck Muscles		
19	3	The student able to identify the main anatomical structures of neck including skin, fascia, superficial and deep cervical fascia, ligaments, muscles, cervical plexus, bones, blood supply, and main muscles of the neck.	The neck: Overview, Skin of the Neck, Fasciae of the Neck, Superficial Cervical Fascia, Deep Cervical Fascia, Cervical Ligaments, Muscles of the Neck, Cervical Plexus, Bones of Neck, Blood Supply, Key Neck Muscles	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
20	3	The student able to understand the neck triangles, anatomical and identify the main anatomical structure of anterior, submental, submandibular, carotid, muscular, posterior triangles and their contents, also thyroid gland and its innervation, blood supply, and venous drainage.	Triangles of the neck: anterior triangle, submental triangle, submandibular triangle, carotid triangle, muscular triangle, Posterior Triangle, Thyroid Gland, blood supply & venous drainage, nerve supply	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
21	3	The student able to understand the neck triangles, anatomical and identify the main anatomical structure of anterior, submental, submandibular, carotid, muscular, posterior triangles and their contents, also thyroid gland and its innervation, blood supply, and venous drainage.	Triangles of the neck: anterior triangle, submental triangle, submandibular triangle, carotid triangle, muscular triangle, Posterior Triangle, Thyroid Gland, blood supply & venous drainage, nerve supply	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, 3and final exam
22	3	The student able to understand anatomy of submandibular region and determine the main anatomical structure in the region including muscles, glands (submandibular and sublingual)	Submandibular region: muscles of the submandibular region, The submandibular, gland Sublingual Gland	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
23	3	The student able to understand and determine the main anatomical structure of the neck root including muscles, thoracic duct, main nerves , cervical plexus, brachial plexus, venous and lymphatic drainage of the head and neck	Root of the neck: Muscles of the Root of the Neck, The Thoracic Duct, Main Nerves of the Neck, Cervical Plexus & Brachial Plexus, Lymph Drainage of the Head and Neck, Veins of the Head and Neck	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

24	3	The student able to understand and determine the main anatomical structure of the neck root including muscles, thoracic duct, main nerves, cervical plexus, brachial plexus, venous and lymphatic drainage of the head and neck	Root of the neck: Muscles of the Root of the Neck, The Thoracic Duct, Main Nerves of the Neck, Cervical Plexus & Brachial Plexus, Lymph Drainage of the Head and Neck, Veins of the Head and Neck	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
25	3	The student able to identify the arterial supply of the neck including common carotid, carotid sinus, carotid body, external and internal carotid arteries and their branches, subclavian artery and its branches, and circle of wills structure	Arteries of the neck: Common Carotid Artery, Carotid Sinus, Carotid Body, External Carotid Artery, Internal Carotid Artery, Subclavian Arteries (3 parts), Circle of Willis	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
26	3	The student able to identify the arterial supply of the neck including common carotid, carotid sinus, carotid body, external and internal carotid arteries and their branches, subclavian artery and its branches, and circle of wills structure	Arteries of the neck: Common Carotid Artery, Carotid Sinus, Carotid Body, External Carotid Artery, Internal Carotid Artery, Subclavian Arteries (3 parts), Circle of Willis	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
27	3	The student able to understand nervous system and identify the main anatomical structure of brain and its part, ventricles, venous sinuses, blood supply, cranial meninges, dural nerve supply, dural venous drainage, and some clinical notes	Brain: nervous System, Gross Anatomy of the Brain, Parts of the Brain, Ventricular System of the Brain, The Venous Blood Sinuses (Dural Sinuses), Blood Supply of the Brain, Cranial Meninges, Dural Nerve Supply, Dural Arterial Supply, Dural Venous Drainage, Clinical Focus	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
28	3	The student able to understand cranial nerves and identify the main anatomical structure, location, and function of each nerve.	Cranial nerves: Introduction, Functional Components, Summary of cranial nerves	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam
29	3	The student able to understand the anatomy of pharynx and determine the main anatomical structure of pharynx included muscles, divisions, palatine tonsil, other tonsils, waldeyer	Pharynx: Muscles of the Pharynx, pharynx divisions, Palatine Tonsils, Waldeyer's Ring of Lymphoid Tissue	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

		ring of lymphoid tissue structure.			
30	3	The student able to understand the anatomy of the larynx and determine the main anatomical structure of it including cartilage, membranes and ligaments, laryngeal folds, muscles, nerve supply, blood and lymphatic supply and drainage.	Larynx: Cartilages of the Larynx, Membranes and Ligaments of the Larynx, Inlet of the Larynx, Laryngeal Folds, Muscles of the Larynx, Nerve & blood Supply of the Larynx	Lectures, PPT, description and training on samples	Weekly quizzes, discussion, monthly exams, mid-year exam, and final exam

10. Course Evaluation

Distributing the score out of 100:
The 1st and 2nd semesters: 30 degree which distributed as follow:
Practical 20 degree (12 monthly exam and 8 degree for attendance, quizzes, discussion and presentation, scientific participation).
Theory 10 degree (5 monthly exam and 5 for attendance, quizzes, discussion, presentation and scientific participation).
Theory midd-year exam 10 degree
Final exam 60 degree (40 theory and 20 practical).

11. Learning and Teaching Resources

Required textbooks (curricular books, if any)	SnelRS. Clinical Anatomy by Regions. 9th edition. Philadelphia, PA: Lippincott Williams & Wilkins. 2012
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1.CourseName:
Biochemistry/Grade two
2.CourseCode:
None
3.Semester/ Year:
Yearly
4.DescriptionPreparationDate:
20/1/2024
5.AvailableAttendanceForms:
Fullyincompass
6.NumberofCreditHours(Total)/Number of Units (Total)
90hours/6 credit
7.Courseadministrator'sname(mentionall,if more than none name)
Name: Dr. Wisam Thamer Jabbar Email:Walmayah@uowasit.edu.iq
8.CourseObjectives

Course Objectives	• A general definition of biochemistry, which is a science related to the chemical basis of life. • Identifythechemicalcomponentsoflivingcells,theirinteractions,the functioning of vital processes in them, and their importance, such as digestion, absorption, energy production processes, and other chemical compounds ,and the unimportance for dental students. • This course aims to define biochemical indicators and their general usesasameasureoftissuefunctions.Then,measurebiochemical indicators related to liver, kidney, and heart functions from a pathologicalperspective. • A set of experiments designed to teach and train students on the methods anddevicesusedinbiochemistry,includingclinicalexperiments.

TeachingandLearningStrategies	
Strategy	• How to deliver a lecture using PowerPoint, films, and illustrative pictures related tobiochemistryforvarioustopics. • Continuous discussion by asking questions and answers in the hall and motivatingthestudenttoself-thinkandthustoself-learning. • Demandingthewritingofscientificreportsinthespecialty,discussingthose reports, and pointing out their strengths and weaknesses to achieve the desired goal. • Usinginnovativeeducationalmeans,suchasthesmartboard,datashows,films, andscientificpicturesthatbringthesubjectclosertothestudents'minds.

9. Course Structure

Week	Hours	RequiredLearning Outcomes	Unitorsubject name	Learning method	Evaluation method
1	3	Introduction to BiochemistryMedical Biochemistry Importance of biochemistrytonurses	Introductionto Biochemistry	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, andfinalexam
2	3	Carbohydrate Chemistry Biologicalimportance Classification of Carbohydrates Isomerism Chemicalpropertiesof CHOs Carbohydrate Metabolism	Carbohydrates	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, andfinalexam
3	3	Carbohydrate Chemistry Biologicalimportance Classification of Carbohydrates Isomerism Chemicalpropertiesof CHOs Carbohydrate Metabolism	Carbohydrates	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, andfinalexam
4	3	Lipids Functionsand importanceoflipids Neutral lipid Identification	Lipids	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, andfinalexam

5	3	Lipids Functionsand importanceoflipids Neutral lipid Identification	Lipids	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, and final exam
6	3	Characterization offats an Compoundlipids Methodsusedfor separation of lipoproteins Bileacidand Bile salts	Lipids	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, and final exam
7	3	Metabolism of lipids PathwayofLipolysis and Lipogenesis B-Oxidationoffatty	Lipids	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, and final exam
8	3	Energetics(ATP produce) Ketonebodies Abnormalitiesin blood lipid	Lipids	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, and final exam
9	3		Exam	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, andfinalexam
10	3	Proteins Functionsofproteins Amino acid Classification Functionsofamino acids	Proteins	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, and final exam
11	3	Proteins Functionsofproteins Amino acid Classification Functionsofamino acids	Proteins	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, and final exam
12	3	Digestion and AbsorptionofProteins Dynamic Equilibrium Metabolism of amino acids BloodProteins	Proteins	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, and final exam
13	3	Digestion and AbsorptionofProteins Dynamic Equilibrium Metabolismof amino	Proteins	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams,

		acids BloodProteins			mid-yearexam, and final exam
14	3	Disturbanceinprotein metabolism Non protein nitrogencompound Kidney functions (Urea,Creatinine, Uric acid, Ammonia	Proteins	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, and final exam
15	3	Disturbanceinprotein metabolism Non protein nitrogencompound Kidney functions (Urea,Creatinine, Uric acid, Ammonia	Proteins	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, and final exam
16	3	Generalpropertiesof enzymes Chemicalcomposition of enzymes Classification of Enzymes Classification of Co-enzymes	Enzymes	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, and final exam
17	3	Generalpropertiesof enzymes Chemicalcomposition of enzymes Classification of Enzymes Classification of Co-enzymes	Enzymes	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, and final exam
18	3	Enzymes specificity	Enzymes	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, andfinalexam
19	3	Enzymesactivity Serum enzyme	Enzymes	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, and final exam
20	3	Normalcharacteristic of urine Constituentsofnormal urine	UrineandCalculi	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, andfinalexam
21	3	UrineCollection General urine examination	UrineandCalculi	Lectures, PPT, descriptionand	Weeklyquizzes, discussion, monthlyexams,

				training on samples	mid-yearexam, 3and final exam
22	3	Generalpropertiesof vitamins	Vitamins	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthlyexams, mid-yearexam, andfinalexam
23	3	Chemicalcomposition of vitamins Classificationof vitamins Classificationof vitamins	Vitamins	Lectures, PPT, description and training on samples	Weeklyquizzes, discussion, monthly exams, mid-year exam, and final exam

10.CourseEvaluation

Distributingthescoreoutof100:
The1st and2nd semesters:30degreewhichdistributedas follow:
Practical20degree(12monthlyexamand8degreeforattendance,quizzes,discussionand presentation, scientific participation).
Theory 10 degree (5 monthly exam and 5 for attendance, quizzes, discussion, presentation and scientific participation).
Theorymidd-yearexam10 degree
Finalexam60degree(40theoryand20 practical).

11.LearningandTeachingResources

Requiredtextbooks(curricularbooks,ifany)	JacobAnthikad,Nutrition and Biochemistry for Nurses, 1st Ed., 2019.
Mainreferences(sources)	1- JaroslavRacekandDanielRajdl, ClinicalBiochemistry,firsted,2016 2- HerbertFrommandMarkHargrove Essentials ofBiochemistry, 2012 3- Vijay Kumar Kiran Dip Gill, Basic ConceptsinClinicalBiochemistry:A Practical Guide,2018 4- UmaBhardwaj&RavindraBhardwa Biochemistry for Nurses,2012 5-DM Vasudevan , Sreekumari S &KannanVaidyanathan,Textbookof BiochemistryforMedicalStudents,201
Recommended books and references (scientificjournals,reports...)	
ElectronicReferences,Websites	

Course Description Form

1. Course Name:
Prosthodontics
2. Course Code:
310PR
3. Semester / Year:
2023- 2024
4. Description Preparation Date:
2023-2024
5. Available Attendance Forms:
weekly
6. Number of Credit Hours (Total) / Number of Units (Total)
(30 hour) Lecture , (60 hour) lab
7. Course administrator's name (mention all, if more than one name)
Name: Email:
8. Course Objectives

Course Objectives	• **Teaching the basic principles related to the manufacture of acrylic and cobalt chrome partial denture**
9. Teaching and Learning Strategies	
Strategy	B-A-1 Giving the student the necessary information to make him able to master all the steps of making a partial denture. Special chromium cobalt related to the laboratory side B - Skills objectives for course B 1 - Description of the tools used to prepare all materials B2 - Teaching the student how to use it and following him during work **Teaching and learning methods**

	LCD, lecture, show, data, digital cameras, live explanation, and direct dealing by the students with all types of materials mentioned within the prescribed curriculum in front of the students after dividing them into groups according to the number of days of the week and explaining all the steps in detail, in addition to bringing models from teams of previous reviewers or Specially prepared kits as demonstration aids. **Evaluation methods:** Practical evaluation of each step of the denture Weekly, monthly, semi-annual and annual exams C- Emotional and value-based goals C-1 Solving problems C-2 Able to handle dental materials and adapt them with complete skill to facilitate and master the manufacture of dentures. Laboratory and immediate response to students' questions and inquiries, Part 3 - Live, clear, detailed explanation and direct interaction. C-4 When making the kit, students will face a number of difficulties due to their dealing with dental materials, which will motivate them The student's creativity and talent in making the kit . C-5 Providing an atmosphere of group work and teaching, which places the student in a peaceful psychological environment in addition to making him alert. For all the lapses and mistakes that he himself or one of his colleagues may make **Evaluation methods** Theoretical exams, evaluation of each step of making the kit, and evaluation of treatment plans and designs developed by students for various medical conditions. D - General and transferable skills (other skills related to employability and personal development). 1 - Urging and motivating students to participate in conferences inside or outside the college and external training

	courses.

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1.	**2**	**Introduction to Removable Partial Dentures**	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
2.	**2**	**Terminology & Definitions**	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
3.	**2**	**Classification of Partially Edentulous Arches**	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
4.	**2**	**Surveying**	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
5.	**2**	**Component parts of Removable Partial Dentures**	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
6.	**2**	**Maxillary Major Connector**	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
7.	**2**	**Mandibular Major Connector**	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final exams**
8.	**2**	**Minor Connector**	**prosthodontics**	**A theoretical lecture using Power Point**	**Short, semester, mid-year and final**

					exams
9.	2	Rest and rest seat	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
10.	2	Direct Retainers,	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
11.	2	Extra Coronal Direct Retainers	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
12.	2	Extra Coronal Direct Retainers (Continue)	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
13.	2	Internal Attachments	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
14.	2	Indirect retainers	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
15.	2	Indirect retainers (Continue)	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
16.	2	Block out & Relief	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
17.	2	Duplication & Refractory Cast Construction	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams

18.	2	Wax Pattern	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
19.	2	Casting,& Finishing	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
20.	2	Denture Bases in Removable Partial Dentures	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
21.	2	Stress Breaker	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
22.	2	Biomechanics of Removable Partial Dentures	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
23.	2	Biomechanics of Removable Partial Dentures Continue	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
24.	2	Principlesof Removable Partial Denture Design	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
25.	2	Phases of Removable Partial Denture Treatment	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
26.	2	Acrylic Removable Partial Dentures	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams

27.	2	Acrylic Removable Partial Dentures (Continue)	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
28.	2	Jaw Relation in Removable Partial Dentures	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
29.	2	Repairs and Additions to Removable Partial Dentures	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
30.	2	Special Impression Techniques for Removable Partial Denture (altered cast techniques... etc	prosthodontics	A theoretical lecture using Power Point	Short, semester, mid-year and final exams

			Lab sess		

Week	Hours	Requir Learni Outcor s	Unit or subject name	Learni metho	Evaluationmethod
1.	4	prosth ontics	Introdu ction to Remov able Partial Dentur es	practica laboratori	Semester and semi-term practical and oral exams Year and final

2.	**4**	**prosthontics**	**Kennedy Classification**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final
3.	**4**	**prosthontics**	**Cast Trimming**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final
4.	**4**	**prosthontics**	**Surveying**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final
5.	**4**	**prosthontics**	**Surveying**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final
6.	**4**	**prosthontics**	**Wire Bending**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final
7.	**4**	**prosthontics**	**Wire Bending**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final
8.	**4**	**prosthontics**	**Acrylic Removable Partial Denture Design**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final
9.	**4**	**prosthontics**	**Acrylic Removable Partial Denture**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final

			Laboratory Procedures		
10.	**4**	**prosthontics**	**Acrylic Removable**	**practical laboratori**	Semester and semi-term practical and oral exams Year and final
11.	**4**	**prosthontics**	**Partial Denture Laboratory Procedures**	**practical laboratori**	Semester and semi-term practical and oral exams Year and final
12.	**4**	**prosthontics**	**Flexible Partial Denture Design**	**practical laboratori**	Semester and semi-term practical and oral exams Year and final
13.	**4**	**prosthontics**	**Flexible Partial Denture Laboratory Procedures**	**practical laboratori**	Semester and semi-term practical and oral exams Year and final
14.	**4**	**prosthontics**	**Flexible Partial Denture Laboratory Procedures**	**practical laboratori**	Semester and semi-term practical and oral exams Year and final
15.	**4**	**prosthontics**	**Flexible Partial Denture**	**practical laboratori**	Semester and semi-term practical and oral exams Year and final

			Laboratory Procedures		
16.	**4**	**prosthontics**	**Principles of 2D Design for the Removable Partial Dentures**	**practical laboratori**	Semester and semi-term practical and oral exams Year and final
17.	**4**	**prosthontics**	**Principles of 2D Design for the Removable Partial Dentures**	**practical laboratori**	Semester and semi-term practical and oral exams Year and final
18.	**4**	**prosthontics**	**Principles of Drawing 2D Design for the Removable Partial Dentures**	**practical laboratori**	Semester and semi-term practical and oral exams Year and final
19.	**4**	**prosthontics**	**2D Design for Mandibular & Maxillary**	**practical laboratori**	Semester and semi-term practical and oral exams Year and final

			Arches		
20.	**4**	**prosthontics**	**2D Design for Mandibular & Maxillary Arches**	**practica laboratori**	Semester and semi-term practical and oral exams Year and final
21.	**4**	**prosthontics**	**2D Design for Mandibular & Maxillary Arches**	**practica laboratori**	Semester and semi-term practical and oral exams Year and final
22.	**4**	**prosthontics**	**Drawing Removable Partial Denture 3D Design & CAD/CAM**	**practica laboratori**	Semester and semi-term practical and oral exams Year and final
23.	**4**	**prosthontics**	**Drawing Removable Partial Denture 3D Design & CAD/CAM**	**practica laboratori**	Semester and semi-term practical and oral exams Year and final

24.	**4**	**prosthontics**	**Types of Rests**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final
25.	**4**	**prosthontics**	**Rest Seat Preparation**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final
26.	**4**	**prosthontics**	**Block Out and Relief**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final
27.	**4**	**prosthontics**	**Block Out and Relief**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final
28.	**4**	**prosthontics**	**Duplication Of the Master Cast**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final
29.	**4**	**prosthontics**	**Wax Pattern for the Removable Partial Denture Framework**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final
30.	**4**	**prosthontics**	**Wax Pattern for the Removable Partial Denture Framew**	**practicalaboratori**	Semester and semi-term practical and oral exams Year and final

			ork		

11. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc **First semester: 15 decree** **Mid exam : 10 decree** **Second semester: 15 decree** **Final exam : 60 decree**	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Carr, A.B. Brown, D.T. (2011) McCracken's Removable Partial Prosthodontics.12th ed. St. Louis, Missouri: Mosby, Inc., Elsevier Inc. ▪ Robert, W. L. (2018) Removable Partial Denture Manual. Dalhousie University. ▪ Phoenix, D. R. Cagna, R. D. Charles, F. D. (2008) Stewart's Clinical Removable Partial Prosthodontics. 4th ed. Quintessence Publishing Co, Inc. ▪ GPT9 2017. The Glossary of Prosthodontic Terms. J Prosth. Dent. ▪ Zoidis P, Papathanasiou I, Polyzois G. The use of a modified poly-etherether-ketone (PEEK) as an alternative framework material for removable dental prostheses. A clinical report. J Prosthodont 2016;25:580-4
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Reports published on the colle website
Electronic References, Websites	college website

Course Description Form

1. Course Name:
Restorative and operative dentistry
2. Course Code:
3. Semester / Year:
Semester I and II / 3rd Year
4. Description Preparation Date:
21/02/2024
5. Available Attendance Forms:
Recording the student's attendance in Theoretical and Practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
Number of credits, Theory: 4/Practical:4 Theory:2h/wk. Practical: 4hrs/week
7. Course administrator's name (mention all, if more than one name)
Name: Dr Widad AL-Omairi Email: Dr.WidadOmairi2@outlook.com
8. Course Objectives
Course Objectives By the End of the Course, Students Will Have Learned: • Definition and instruments used in Operative Dentistry. • Proper sterilization techniques for operative instruments. • Various cavity preparations for amalgam (Class I, II, III, IV, V) and tooth-colored restorations. • Principles and materials used in crown constructions (metal crowns, porcelain fused to metal, complete ceramic crowns). • CAD/CAM technology for crown construction. • Differentiate between hand instrument groups. • Techniques for liner and base placement, cementation, and provisional restorations. • Analysis and prevention of failures in amalgam restorations. • Problem-solving skills through case scenarios and treatment planning. • Application of biomechanical principles to tooth preparation. • Hands-on experience in cavity preparations, amalgam and composite restorations, crown preparations, and impressions. • Understanding of the role of materials in operative dentistry. • Collaboration and discussion skills through group discussions. • Evaluation through quizzes, practical assessments, and final exam
9. Teaching and Learning Strategies
1. Lectures

2. **Group discussion.**
3. **Demonstrations:**

- Live Demonstrations: Conduct live demonstrations of procedures by instructors.

4. Video Demonstrations: Use pre-recorded or online videos to demonstrate ste by-step procedures.
5. **Hands on workshops:** clinical simulation context such as phantom head cours
6. **Problem-Based Learning (PBL):**

- Case Scenarios: Provide students with complex cases and guide them through the process of diagnosis and treatment planning.

10. Course Structure:

No	Title of Lecture	Hours
1	Definition of Operative Dentistry	1
2	Definition of Operative Dentistry	1
3	Instruments and general instrumentation of cavity preparation	1
4	Instruments and general instrumentation of cavity preparation	1
5	Sterilization of operative instruments	1
6	Sterilization of operative instruments	1
7	Amalgam cavity preparations for class I	1
8	Amalgam cavity preparations for class I	1
9	Amalgam cavity preparations for class II	1
10	Amalgam cavity preparations for class II	1
11	Amalgam cavity preparations for class II (MOD)	1
12	Amalgam cavity preparations for class II (MOD)	1
13	Amalgam cavity preparations for class III and class V	1
14	Amalgam cavity preparations for class III and class V	1
15	Cavity liners and cement bases (part 1)	1
16	Cavity liners and cement bases (part 1)	1
17	Cavity liners and cement bases (part 2)	1
18	Cavity liners and cement bases (part 2)	1
19	Dental amalgam alloys (material)	1
20	Dental amalgam alloys (material)	1
21	Complex amalgam restoration	1
22	Complex amalgam restoration	1
23	Failures in amalgam restorations	1
24	Failures in amalgam restorations	1
25	Tooth colored restorations (composite)	1
26	Tooth colored restorations (composite)	1
27	Cavity preparation for anterior restorations	1
28	Cavity preparation for anterior restorations	1
29	Resin materials	1
30	Resin materials	1
31	Definitions	1

32	Definitions	1
33	Definitions	1
34	Biomechanical principles of tooth preparation:	1
35	Biomechanical principles of tooth preparation:	1
36	Biomechanical principles of tooth preparation:	1
37	Full metal crown	1
38	Full metal crown	1
39	Porcelain Fused to metal crown	1
40	Porcelain Fused to metal crown	1
41	Complete ceramic crown (Porcelain Jacket Crown)	1
42	Complete ceramic crown (Porcelain Jacket Crown)	1
43	Partial veneer crown (three-quarter crown)	1
44	Partial veneer crown (three-quarter crown)	1
45	Post Crown	1
46	Post Crown	1
47	Impression for crown and bridge work	1
48	Impression for crown and bridge work	1
49	Provisional restoration	1
50	Provisional restoration	1
51	Working casts and dies	1
52	Working casts and dies	1
53	Waxing, investing, casting	1
54	Waxing, investing, casting	1
55	Finishing of the casting and clinical try-in	1
56	Finishing of the casting and clinical try-in	1
57	Cementation	1
58	Cementation	1
59	CAD /CAM Technology for crown construction	1
60	CAD /CAM Technology for crown construction	1
Total		60 Hours

Laboratory Sessions:

Lab number	Study unit title Preclinical Operative Dentistry	Hours
1	Introduction to operative dentistry, and to work in phantom lab. Demonstration about the rotary instrument, and how to cut geometrical cavities (circle, triangle, square, rectangle, and dove-tail), and leave students to work under supervision.	2
2	Demonstration of how to use phantom head, working positions for both student and phantom head, also demonstration cavity preparation on buccal pit of lower 1st molar and palatal pit of upper lateral incisor.	2
3	Demonstration of principles of amalgam cavity preparation for CL I on the occlusal surface of lower 2nd premolar on the board then do demonstration of cutting on the phantom head. Quiz about the principles of CL I amalgam cavity preparation.	2

4	Demonstration amalgam CL I cavity for lower 1st premolar and Leave students to work under supervision.	2
5	Demonstration amalgam CL I cavity for upper 1st molar (two separated cavities) on the phantom head and teaching the students how to work indirectly by using mirror. Leave students to work under supervision.	2
6	Demonstration amalgam cavity for the palatal extension in upper 1st molar (continue with last lab in distal occlusal cavity), and Demonstration on the hand instrument groups and teach students to differentiate between them.	2
7	Practical assessment for the students in amalgam CL I cavity on lower 1st molar. Oral quiz on the hand instrument and their groups.	2
8	Demonstration amalgam CL II MO cavity for lower 1st premolar	2
9	Demonstration amalgam CL II MO cavity for upper 1st molar	2
10	Practical assessment for the students in amalgam CL II MO cavity on lower 1st molar. Quiz in amalgam CL II cavity lectures.	2
11	Demonstration amalgam CL II MOD cavity for lower 1st molar	2
12	Demonstration amalgam CL II MOD cavity for upper 2nd molar	2
13	Practical assessment for the students in cavity preparation of amalgam CL II MOD cavity on lower 2nd molar.	2
14	Demonstration amalgam CL V cavity for lower 2nd premolar, upper 1st molar and upper 2nd premolar.	2
15	Demonstration amalgam CL III cavity in distal side of upper canine.	2
16	Demonstration of the liner and base placement, their indication, advantage, and uses.	2
17	Supervised students in mixing and placing zinc phosphate cement in CL	2
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

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

11.Course Evaluation

First semester	15%
Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60% (30% theoretical exam, 20% practical clinical exam)
Total	100

12.Learning and Teaching Resources

Required textbooks (curricular boo if any)	1- Summitt's fundamentals of operative dentistry: A contemporary approach. 4th edition. 2- Art and science of operative dentistry 7th edition 3- Fundamentals of Fixed Prosthodontics, 201 Quintessence Pub. SHILLINGBURG, H. T. & SATHER, D. A. 4- Contemporary Fixed Prosthodontics, 2016 Elsevier. ROSENSTIEL, S. F., LAND, M. F. & FUJIMOTO, J.

Course Description Form

1. Course Name:
Oral surgery
2. Course Code:
322OS
3. Semester / Year:
Semester I and II /3rd Year
4. Description Preparation Date:
2023/2024
5. Available Attendance Forms:
Recording the student's attendance in Theoretical and Practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hrs. for Theoretical **90 hrs. for Practical** **120 hrs. (Total)/ 5 units (Total)**
7. Course administrator's name (mention all, if more than one name)
Name: Email:
8. Course Objectives
Course Objectives **1-Gain basic knowledge about oral surgery.** **2-Identify the surgical tools used in oral surgery and surgical methods.** **3-Basic knowledge about local anesthesia and its methods.** **4-Knowing the basics of oral diagnosis and surgical tools.** **5-Tooth extraction and oral surgery methods.** **6-Teaching different local anesthesia methods**
9. Teaching and Learning Strategies

Strategy	• **Lectures using power point (data show)** • **Practical laboratories**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 & 2	2	Assessment of the surgical patients	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
3	1	Local anesthetic: definition, requirements, mechanism of action	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4	1	Clinical anatomy Related to local anesthetic techniques	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5	1	Techniques used for Local anesthetic administration in the maxilla	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
6	1	Technique used for local Anesthetic administration in the mandible	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
7	1	General and local complications associated with local anesthesia	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
8	1	General anesthesia principles	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
9 & 10	2	General principles of sedation in oral surgery	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
11	1	Principles of teeth extraction: definition, indications, contraindications	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12	1	Mechanical principles of teeth extraction	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
13	1	Armamentarium of oral surgery: Instruments and materials	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
14	1	Techniques used for simple teeth extraction	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
15	1	Brief introduction to surgical extraction	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
16	1	Dental management of	Oral Surgery	Power point, White board,	Attendance, Weekly

		fainting and vasovagal attack		**Videos and smart screen**	**Quizzes, Semester exam, Mid. Term exam and Final exam.**
17	**1**	**Dental management of diabetic patient & Hypoglycemic shock**	**Oral Surgery**	**Power point, White board, Videos and smart screen**	**Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.**
18 & 19	**2**	**Dental Management of cardiovascular conditions**	**Oral Surgery**	**Power point, White board, Videos and smart screen**	**Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.**
20	**1**	**Dental management of asthmatic patients & other respiratory conditions**	**Oral Surgery**	**Power point, White board, Videos and smart screen**	**Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.**
21	**1**	**Dental management of Liver diseases**	**Oral Surgery**	**Power point, White board, Videos and smart screen**	**Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.**
22 & 23	**2**	**Dental management of patients with coagulation problems & bleeding disorders**	**Oral Surgery**	**Power point, White board, Videos and smart screen**	**Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.**
24	**1**	**Dental management of the pregnant patients**	**Oral Surgery**	**Power point, White board, Videos and smart screen**	**Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.**
25	**1**	**Dental management of patients with thyroid conditions**	**Oral Surgery**	**Power point, White board, Videos and smart screen**	**Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.**
26	**1**	**Dental management of patients on steroids and adrenal insufficiency**	**Oral Surgery**	**Power point, White board, Videos and smart screen**	**Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.**
27	**1**	**Dental management of patients with epilepsy**	**Oral Surgery**	**Power point, White board, Videos and smart screen**	**Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.**
28	**1**	**Dental management of patients with stroke**	**Oral Surgery**	**Power point, White board, Videos and smart screen**	**Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.**
29	**1**	**Dental management of patients with end stage renal diseases**	**Oral Surgery**	**Power point, White board, Videos and smart screen**	**Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.**
30	**1**	**Dental management of patients with HIV**	**Oral Surgery**	**Power point, White board, Videos and smart screen**	**Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.**
Total	**30**				

11. Course Evaluation

First semester	**15%**
Mid. Term Exam.	**10%**
Second semester	**15%**
Annual pursuit degree	**40%**
Final exam degree	**60%**
Total	**100%**

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	**Hand book of local anesthesia 7th edition Stanely F. Malamed , Elsevier.2019**
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Laboratory sessions & *Clinical requirements*

Week	Laboratory sessions	Hours
1&2	**History taking: Includes patient communication skills, chief complaint, past dental history, medical history and family history, risk assessment associated with common medical conditions with regards to dental extraction.**	**6**
3&4	**Clinical examination and diagnosis: Components of clinical examination with demonstration of extra oral and intra oral examination (lymph node palpation, TMJ palpation with the focus on the accused tooth/teeth), diagnosis of cases in patients case sheet with regards to dental extraction**	**6**
5&6	**Basic surgical instruments I: Instrument to incise tissue, instrument for control of hemorrhage, instrument for grasping tissues, instruments for reflection of mucoperiosteal flap, instrument for cutting the bone**	**6**
7&8	**Basic surgical instruments II: Instruments of retracting the cheek and mucosa, instruments of suturing, types of suture materials, types of suturing needles, instrument for suction, instruments of irrigation, instruments of patient draping and cable management.**	**6**
9&10	**Dental forceps I: Indication of using dental forceps, part of a dental forceps, forceps of maxillary teeth.**	**6**
11&12	**Dental forceps II: Forceps of mandibular teeth, physics forceps.**	**6**
13&14	**Dental elevators I: Indications, mechanical principles of using elevators, straight elevators, Coupland chisel, Winters elevator**	**6**
15&16	**Dental elevators II: Cryers elevator, apixo elevator, Warwick-James elevator, periotomes, guiding principles of using dental elevators.**	**6**
17&18	**Local anesthetics (instruments & materials). Demonstartion of local anesthetic dental syringe, dental injection needles, types of different local anesthetics, topical measures of injection pain reduction, automized injectors**	**6**
19&20	**Maxillary injection techniques: Hands on demonstration on special manikin of Infiltration of upper anterior teeth, infiltration of premolars and molars, nerve block of long sphenopalatine and greater palatine nerves, periodontal ligament injection.**	**6**
21&22	**Mandibular injection techniques. Hands on demonstration on special manikin of infiltration injections, and inferior alveolar nerve block, long buccal nerve block and mental nerve block, periodontal ligament injection**	**6**

	and intra-bony injections.	
23&24	**Maxillary teeth extraction: Hand on demonstration on manikin of maxillary teeth extraction with dental forceps.**	**6**
25&26	**Mandibular teeth extraction: Hands on demonstration on manikin of mandibular teeth extraction with dental forceps.**	**6**
27&28	**Basic life support and CPR: Demonstration of how to perform emergency evaluation of fainted patients (A,B,C,D,& E), administration of oxygen, establishing IV line, IM injection, Heimlich maneuver, and cardiopulmonary resuscitation.**	**6**
29&30	**Examination.**	**6**
Total		**90**

Course Description Form

1. Course Name:

Pharmacology

2. Course Code:

3. Semester / Year:

Semester I and II / 3rd Year

4. Description Preparation Date:

03-10-2023

5. Available Attendance Forms:

Recording the student's attendance in Theoretical and Practical lectures

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

60 hrs. for Theoretical
60 hrs. for Practical
120 hrs. (Total)/ 6 units (Total)

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

Name: Assist. Prof. Dr. Alwan Abed Hamadi
Email: ahamadi@uowasit.edu.iq

8. Course Objectives

Course Objectives

After each of the following specific lecture topics students will be expected to be able to understand, discuss and explain each of the following pharmacological concepts. Where appropriate a list of the relevant drugs is provided for each topic. In these cases, students should be able to identify which specific drugs belong to each major drug class, as well as have an understanding of the indications, clinical effect, mechanism of action and adverse effects of each of the major drug classes.

At the end of the course the student will be able to:

1. The different types of drugs formulations and their respective advantages and disadvantages.
2. The various routes of drug administration and their respective advantages and disadvantages for specific therapeutic indications.
3. The various factors that affect drug absorption, drug distribution and drug excretion.
4. The role of receptors as targets for drug action and their role in the mediation of drug responses.
5. The fundamental difference between an agonist and antagonist.
6. The relationship between generic versions of drugs and their branded product.
7. The differences in the chemical equivalence, biological equivalence and therapeutic equivalence of a drug product as related to generic drug substitution.
8. The concept of drug bioavailability.
9. The essentials of the drug approval process.
10. The concept that in addition to beneficial clinical effects the use of drugs can also lead to toxic side effects.

9. Teaching and Learning Strategies

Strategy

- ✔ Method of delivering the lecture using PowerPoint
- ✔ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus to self-learning.
- ✔ innovative educational methods, such as scientific instructional pictures, the procedure application, and displaying an educational video that brings the material closer to the students' minds.

10. Course Structure

Week	Hours	Required Learning Outcomes/theory	Required Learning Outcomes/practical	Unit or subject name	Learning method	Evaluation method
1	2 theory+ 2 practical	Pharmacology: General concepts	Introduction and animal (e.g rabbits) handling	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
2	2 theory+ 2 practical	Pharmacokinetics and pharmacodynamics	Routes of drug administration (Part 1)	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
3	2 theory+ 2 practical	Autonomic nervous system from a pharmacological perspective (including cholinergic agonist and antagonist)	Routes of drug administration (Part 2)	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4	2 theory+ 2 practical	Adrenergic agonists	Clinical parameters in drug pharmacokinetics (Part 1)	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5	2 theory+ 2 practical	Adrenergic antagonists	Clinical parameter drug pharmacokinetics (Part 2)	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
6	2 theory+ 2 practical	Antihypertensive drugs	Demonstration of common dosage forms used in clinical practice (Part 1)	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
7	2 theory+ 2 practical	Management of angina and heart failure	Demonstration of common dosage forms used in dentistry (Part 2)	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
8	2 theory+ 2 practical	Management of arrhythmia	Cholinergic agonists and antagonists (Physostigmine Vs Curare)	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

9	2 theory+ 2 practical	Anticoagulants, antiplatelet and anti-hyperlipidemic drugs	Effects of Drugs on Human Blood Pressure (Part 1-B-Blockers)	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
10	2 theory+ 2 practical	Introduction the pharmacology of CNS drugs, sedative, hypnotics and antiseizures drugs	Effects of Drugs on Human Blood Pressure (Part 2) (Nitrates Effect on Human Volunteers	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
11	2 theory+ 2 practical	Antipsychotic and antidepressant drugs	Effects of Drugs on The Arterial Blood Pressure Of Human (Part-3)	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12	2 theory+ 2 practical	Local and general anaesthetics	The effects of drugs and light on human eyes	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
13	2 theory+ 2 practical	Drug of abuse and opioid analgesics	The effects of drugs and light on human eyes	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
14	2 theory+ 2 practical	Managements of diabetes mellitus	Effects of parasympathomimetic drugs on glandular secretions	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
15	2 theory+ 2 practical	Drugs affecting GIT	The response of human skin to histamine and adrenaline	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
16	2 theory+ 1 practical	Drugs acting on respiratory system (antihistamines and corticosteroids)	The response of human skin to histamine and adrenaline	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
17	2 theory+ 2 practical	Non-steroidal anti-inflammatory drugs (NSAIDs) part 1	Evaluation of Analgesics	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	2 theory+ 2 practical	Chemotherapeutic drugs (Principles of antimicrobial therapy)	Evaluation of analgesics (Opioids)	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

19	2 theory+ 2 practical	Chemotherapeutic drugs (Principles of antimicrobial therapy)	Evaluation of Anti-inflammatory Drugs	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
20	2 theory+ 2 practical	Cell wall inhibitors (part1)	Evaluation of Anti-inflammatory Drugs	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
21	2 theory+ 2 practical	Cell wall inhibitors (part 2)	Effects of Drugs on The Arterial Blood Pressure Of Human (Part-3)	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
22	2 theory+ 2 practical	Protein synthesis inhibitors	Local Anaesthesia	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
23	2 theory+ 2 practical	Quinolones, Folic acid antagonists and antimycobacterial	General Anaesthesia	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
24	2 theory+ 2 practical	Antifungal, antiviral and antiprotozoal drugs	General Anaesthesia	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
25	2 theory+ 2 practical	Sex hormone and contraceptive	Prescription writing	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
26	2 theory+ 2 practical	Thyroid hormones a anti-thyroid drugs	Prescription writing	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
27	2 theory+ 2 practical	Anticancer drugs	Prescription writing	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
28	2 theory+ 2 practical	Dental Pharmacology: drugs and chemicals used in dental clinic	Oral conditions and their treatment	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
29	2 theory+ 2 practical	Anticaries and drug used in prevention dental plaque	Orodental preparation (part	Pharmacology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

30	2 theory+ 1 practical	Essential emergenc drugs in dental clini	Dental health and endocarditis prevention	Pharmac ology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
Total	120 hrs					

11. Course Evaluation	
First semester	15%
Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60%
Total	100

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Lippincott illustrated reviews, pharmacology 2019
Main references (sources)	Lippincott illustrated reviews, pharmacology 2019
Recommended books and references (scientific journals, reports...)	Katzung and Treevors Basic and clinical pharmacology Examination and Board Reeview 11th edition Range and Dale Pharmacology 7th edition
Electronic References, Websites	Harvard Pharmacology Online https://onlinelearning.hms.harvard.edu/hmx/courses harmacology

Course Description Form

.1 Course Name: Microbiology
.2 Course Code:
.3 Semester / Year:2023-2024
.4 Description Preparation Date: February 2024
.5 Available Attendance Forms: Student attendance is 100% for the entire academic year
.6 Number of Credit Hours (Total) / Number of Units (Total) 120 hours and 6 units
.7 Course administrator's name (mention all, if more than one name)
Name: Dr. Sajjad Mohsen irayyif Email: sajjad300@uowasit.edu.iq

.8 Course Objectives

Course Objectives	• **The objectives of the academic program are to prepare a student with a high level of scientific and precision in dealing with microorganisms that are related to his precise specialty as a dentist and other specializations (medicine in general) so that no kind of interference occurs.**

.9 Teaching and Learning Strategies

Strategy	A- Knowledge and understanding A1-Learning microbiology A2-Learn its effects A3- Giving microbiology lectures A4- Microbial risks B - Subject-specific skills B1 - Dealing with microorganisms B2 - Dealing with germs and microorganisms

.10 Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Morphology, Ultra structures, physiology and metabolism of microorganisms: -	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams

		-Eukaryotic & Prokaryotic cells -Cell structure of prokaryotes -Comparison between G & G-ve cell wall			
2	2	-Microbial growth, growth curve -Metabolism of microorganisms Molecular biology & bacterial genetics	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
3	2	-Sterilization and Disinfection	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
4	2	Antibiotic and chemotherapy:- -Antibiotic, sources -Mode of action of antibiotic -Anti-microbial sensitivity tests -Bacterial resistance -Prophylactic use	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
5	2	- Introduction to general immunology and oral immunology - Non-specific and specific immunity - Antigen - Immunoglobulin Humeral and Cellular Immunity	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
6	2	- Cells and organs of the immune system - Complement system - Human leukocyte antigen Role of complement and HLA in oral disease	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
7	2	- Oral and mucosal immunity Autoimmunity and immune tolerance	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
8	2	- Hypersensitivity reactions	Microbiology	A theoretical lecture using	Short, semester,

		- Antimicrobial and immunological defenses of saliva and gingival crevicular fluid components		Power Point	mid-year and final exams
9	2	Host-parasite relationship & Nosocomial infection -Symbiosis, Commensalism, Amphibiosis, Antagonistic -Sources of infection in hospital and -nosocomial infections -Post-operative wound infection, burns infections	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
10	2	Streptococci -Pyogenic Streptococci -Lancefield group -Pathogenesis of streptococci	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
11	2	Staphylococci -Virulence factors - and pathogenesis -Epidemiology , treatment and prevention	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
12	2	G- negative diplococcic , Vellionella and Moraxella Neisseria gonorrhea, N. meningitidis	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
13	2	Lactobacilli, Actinomyces and *Corynebacterium diphtheriae* & Diphtheroids	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
14	2	Bacillus: B. subtilis, B. anthracis and	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams

		B.ceres			
15	2	Clostridium : C. perfringenis , C. tetani, C. botulinum, and difficile	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
16	2	Enterobacteriaceae -E.coli, Salmonella, Shigella,	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
17	2	Enterobacter, Klebsiella, proteus, Yersinia	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
18	2	Mycobacteruim -Tuberculosis & Leprae	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
19	2	Brucella, Haemophilus, Vibirio	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
20	2	- Aggregatibacter , porphyromonas, prevotella, Bacteroids	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
20		Fusiforms and Spirochaetes -Fusobacterium ,leptotichia	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
21	2	Treponema and oral Treponema	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
22	2	Quinolones, Folic acid antagonists and antimycobacterial	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
23	2	Mycoplasma, Chlamydia and Rickittsiae	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
24	2	Ecology of oral flora	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
25	2	Microbiology of dental caries -Dental plaque & plaque metabolism - plaque homeostasis	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
26	2	Microbial colonization-Caries	Microbiology	A theoretical lecture using	Short, semester, mid-year and

		prevention- Antibacterial factors in saliva		Power Point	final exams
27	2	Microbiology of periodontal disease and Endodontics -Subgingival microbial complex	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
28	2	Virology	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
29	2	viral replication -Isolation & diagnosis -Oral virology	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams
30	2	Oral mycology and Oral parasitology -Introduction, epidemiology, transmission -E. histolotica, E.gingivalis, T. tenax -Fungal cells	Microbiology	A theoretical lecture using Power Point	Short, semester, mid-year and final exams

.11 Course Evaluation

The theoretical and practical monthly exams are 70 marks
Daily exams 10 marks
Daily assignments 15 marks
Attendance and absence are 5 degrees

.12 Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	KubImmunology Eighth Edition ©20
Recommended books and references (scientific journals, reports...)	Essential Microbiology for Dentis 5th Edition (2018)
Electronic References, Websites	

Course Description Form

1. Course Name:

Pathology

2. Course Code:

3. Semester / Year:

Semester I and II / 3rd Year

4. Description Preparation Date:

03-10-2023

5. Available Attendance Forms:

Recording the student's attendance in Theoretical and Practical lectures

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

60 hrs. for Theoretical
60 hrs. for Practical
120 hrs. (Total)/ 6 units (Total)

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

Name: Lecturer Talal Jabel Hussien
Email: tjabel@uowasit.edu.iq

8. Course Objectives

Course Objectives

Philosophy: Students enter Medical School with a wide variety of educational needs and learning styles. Accordingly, we offer a variety of learning resources with the hope that we can better meet their academic needs. The combination of lectures, handout materials, labs, large group sessions, optional texts, optional computing resources, and objective-based examinations should provide each student with a solid foundation in pathology in anticipation of their future clinical training and medical practice.

Overarching Goal: The goal of the Pathology Course is to provide students with essential medical knowledge and a broad understanding of human disease. The Course emphasizes "the language of disease" as a necessary foundation for self-education and lifelong learning.

Specific learning (session) objectives have been developed by all lecturers, and are included at the beginning of each lecture handout for each section of the Course. These session objectives build on the following course learning objectives:

By the end of this course students should be able to:

- Define the keywords and phrases emphasized in the lectures, course materials, and glossary.
- Describe our current understanding of the pathogenesis and epidemiology of the common or important diseases discussed in lecture.
- Describe and recognize the major cell and tissue alterations associated with these diseases and how they contribute to organ dysfunction or clinical signs and symptoms.
- Describe how pathological analysis is used to recognize, classify, grade and stage the major types of malignancy.
- Describe how pathological analysis contributes to disease surveillance and the evaluation of therapeutic interventions.

9. Teaching and Learning Strategies

Strategy

- ✔ Method of delivering the lecture using PowerPoint
- ✔ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus to self-learning.
- ✔ innovative educational methods, such as scientific instructional pictures, the procedure application, and displaying an educational video that brings the material closer to the students' minds.

10. Course Structure

Week	Hours	Required Learning Outcomes/theory	Unit or subject name	Learning method	Evaluation method
1	2	Introduction to pathology Clinical pathology Molecular pathology	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
2	4	Cell damage reversible cell injury	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
3	4	Irreversible cell injury Deposits and pigmentation External and internal pigmentation	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4	4	Inflammation Acute inflammation Chronic pathology	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5	4	Chemical mediators	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
6	4	Healing and repair Healing of skin wound	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
7	4	Healing of bone	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
8	6	Hemodynamic Disorders, Thromboembolic Disease, and Shock	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
9	2	Genetic	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
10	2	Diseases of the Immune System Hypersensitivity	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

11	2	Autoimmune diseases Transplantation	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12	2	Neoplasia	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
13	2	bengin and malignant tumors molecular basis of tumors	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
14	2	Bacterial and viral infection	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
15	2	Environmental and Nutritional Diseases	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
16	4	Blood Vessels	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
17	4	The Heart	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	4	Red Blood Cell and Bleeding Disorders	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
19	4	Diseases of White Blood Cells	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
20	4	Diseases of G.I.T	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
21	2	Diseases of liver,	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
22	2	pancreas and gall bladder	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam

					and Final exam.
23	2	Diseases of respiratory system	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
24	2	Bone diseases	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
25	2	Kidney	Pathology	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
Total	60 hrs.				

11. Course Evaluation

First semester	15%
Mid. Term Exam.	20%
Second semester	15%
Annual pursuit degree	50%
Final exam degree	50%
Total	100

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Robbins basic pathology, 2018.
Main references (sources)	Stevens Core pathology, 2008 Ran

Course Description Form

.1 Course Name:	
Dental Radiology	
.2 Course Code:	
RAD 367	
.3 Semester / Year:	
2023 -2024	
.4 Description Preparation Date:	
2024	
.5 Available Attendance Forms:	
Weekly	
.6 Number of Credit Hours (Total) / Number of Units (Total)	
30 Theoretical, 60 Clinical	
.7 Course administrator's name (mention all, if more than one name)	
Name: Hussein Haleem Jasim Email: hhaleem@uowasit.edu.iq	
.8 Course Objectives	
Course Objectives	• Teaching and introducing dental students to the field of radiological diagnosis of anatomical structures and diagnosis of various oral, maxillofacial diseases. • Read, interpret, assess and evaluate what is on the radiograph • Knowledge of the latest radiology diagnostic techniques
.9 Teaching and Learning Strategies	
Strategy	• Increasing the student's ability to deal with modern imaging diagnostic methods • Developing the student's ability to read and interpret radiographs • Developing the student's ability to distinguish between pathological and non-pathological conditions in the radiograph

.10 Course Structure

Evaluationmethod	Learningmethod	Unit or subject name	Hours	Week
1		Physics of Radiation	Lecture and clinic	• Exams, Seminar Evaluation of the

				radiographstaker the student.
2		How to produce X-rays	=	=
3		Types of X-ray films and how to develop them	=	=
4		Factors that control X-rays	=	=
5		Ideal radiograph specifications	=	=
6		Biological effects of X-rays	=	=
7		Protection and protection from radiation	=	=
8		Intraoral radiography techniques	=	=
9		Normal anatomical features in the radiograph of the mouth and maxillofacial	=	=
10		Normal anatomical features in the radiograph of the mouth and maxillofacial	=	=
11		Methods and how to develop radiographic films	=	=
12		Dental abnormalities	=	=
13		Fractures of teeth and jaws	=	=
14		How to deal with patients	=	=
15		Digital Photography	=	=
16		Inflammatory conditions of the jaws	=	=
17		Cysts in the jaws	=	=

18		Deformities of the jaws	=	=
19		Description of diagnostic imaging radiological) examination (and guidelines	=	=
20		Diseases of the salivary glands	=	=
21		Infection control	=	=
22		How to deal with the patient in the radiology clinic	=	=
23		Techniques and methods of taking rays from outside the mouth	=	=
24		Panoramic rays	=	=
25		Vertical radiography	=	
26		Temporomandibular joint radiology	=	=
27		CT scan	=	=
28		Mri	=	=
29		Ultrasound	=	=
30		Radiology applications in dental implants	=	=

.11 Course Evaluation

Weekly, monthly and annual exams, seminars, X-ray evaluation	
.12 Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1- White and Pharoah's Oral radiology principles and interpretation. Sanjay Mallya and Ernest Lam. 8th edition. .2019, Elsevier 2- Ghom, Anil Govindrao. Textbook of oral radiology-E-Book. 2016, Elsevier Health Sciences
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name:

prosthodontics

2. Course Code:

PR410

3. Semester / Year:

Semester I and II / fourth Year

4. Description Preparation Date:

2024

5. Available Attendance Forms:

Recording the student's attendance in Theoretical and Practical lectures

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

30 hrs. for Theoretical
150 hrs. for Practical
180 hrs. (Total)/ 8 units (Total)

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

Name: Assist. Prof. Dr. Hani mohsin khlaif
Email: hkhleef@uowasit.edu.iq

8. Course Objectives

Course Objectives

At the end of the course the student will be able to:

1-Ability to explain to a patient the treatment process.
2-Ability to undertake therapy in a safe manner.
3-Ability to recognize and deal with complications that may arise.
4-Have an exposure to various repair methods used in complete and partial denture service.
5-Understand the protocol for removable partial denture recall and be familiar with the individual procedures used for the recall. •Recognize the signs that would require a reline of a removable partial denture and be familiar with the clinical steps to accomplish the reline.
6-Understand the clinical steps required for the repair a complete denture or partial denture. ms.

9. Teaching and Learning Strategies

Strategy

- ✓ Method of delivering the lecture using PowerPoint
- ✓ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus to self-learning.
- ✓ innovative educational methods, such as scientific instructional pictures, the procedure application, and displaying an educational video that brings the material closer to the students' minds.

10. Course Structure

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

1	1	Anatomy and physiology as related to dental prosthesis (osteology	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
2	1	Anatomy and physiology as related dental prosthesis (Myology)	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
3	1	Diagnosis and treatm plan for RPD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4	1	To be continued Diagnos and treatment	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5	1	Preparation of the mouth receive an RPD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
6	1	Preparation of the mouth receive an RPD (Continu	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
7	1	Classification of impressi technique	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

8	1	Classification of impressi technique (To be continu	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
9	1	Designing Support	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
10	1	Fitting the removable par denture framework	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
11	1	Occlusal Relationship for Removable Partial Dentu	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12	1	Jaw relation in RPD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
13	1	Trial RPD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
14	1	Initial placement and adjustment of RPD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

15	1	Pre- prosthetic surgery	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
16	1				
17	1	Pre-prosthetic Surgical Considerations (Continue	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	1	Diagnosis and treatment p CD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	1	To be continued diagnosi and treatment plan for CD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
20	1	Impression in CD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
21	1	TMJ and mandibular movement	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
22	1	Digital RPD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final

					exam.
23	1	Vertical jaw relation	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
24	1	Horizontal jaw relation (Centric occlusion)	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
25	1	Try in stage in CD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
26	1	Insertion of CD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
27	1	Adjustments of CD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
28	1	Post insertion complicati in CD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
29	1	relining and rebasing of C	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final

					exam.
30	1	Repair of fractured RPD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
Total	30 hrs				

Clinical requirement

	Study unit title	Hours
1	**3 acrylic RPD (free end extension).**	
2	**2 acrylic RPD (bounded saddles)**	
3	**1 immediate or flexible RPD.**	
4	**1 case repair**	
Total		**150**

11.Course Evaluation

First semester	15%
Mid. Term Exam.	20%
Second semester	15%
Annual pursuit degree	50%
Final exam degree	50%
Total	100

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	• Zarb, Hobkirk, Eckert, Jacob et al. Prosthodor
Main references (sources)	• treatment for edentulous patients: Complete dentures and implant-supported prostheses.13 edition 2013 by Mosby, Elsevier Inc. ▪ Carr a Brown. McCracken'sremovable partial prosthodontics, 13th edition 2016 by • Elsevier, Inc. ▪ Phoenix, Cagna, DeFreest.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

	Stewart's clinical removable partial prosthodontics, 4th edition, 2008 Quintessenc Publishing Co, Inc. ▪ Golden and • Driscoll. Treating the complete denture patien 1st edition 2020 John Wiley & Sons, Inc. ▪ Ra Ivanhoe and Plummer. Textbook of complete dentures.6th edition 2009 People's Medical Publishing House-USA. ▪ Veeraiyan, • Ramalingam, Bhat. Textbook of prosthodontics.1st edition 2003 Jaypee Brothe Medical Publishers (P) Ltd.▪ Jones and García Removable partial dentures a clinician's guide.1st edition, A John Wiley and Sons, Inc Publication

Course Description Form

1. Course Name: Dental public health

2. Course Code:

3. Semester / Year: 1&2 semester 4th year

4. Description Preparation Date:20−2−2024

5. Available Attendance Forms: Students theoretical and practical lectures

6. Number of Credit Hours (Total) / Number of Units (Total) 30 hours theoretical 90 hours clinical = 120 hours total - 5units

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

Name: Assist. Prof. Dr. Aseel Hamza Albahili
Email: :aalbaheli@uowasit.ed.iq

8. Course Objectives

Course Objectives information about oral diseases community for control and prevention of den of diseases	• ….. • ….. • …..

9. Teaching and Learning Strategies

Strategy	Get skills and learning about oral diseases treatment a prevention

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
11 2 3	1 1 1	Dental public health Epidemiology	Community	Power points smarts	Attendance weekly quizzes

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Epidemiological studies-Experimental studies Epidemiology of dental caries Epidemiology of Periodontal Disease Dental indices Indices used for assessment of dental caries Indices used for assessment of periodontal diseaseDental fluorosis Biostatistics Data presentatio Measures of central tendency dispersion Fluoridation as a public health measure Occupational hazards in dentistry Environment and health School Dental Health Program Dental manpowerForen dentistry Forensic dentistr Dental auxiliary personal Primary health careInfection control Dental hea		screen	semester exam m term exa and fi exam

		education practical Hours 1 Community dentistry 2 2 Patient's setting & examination 2 3 Clinical examination 2 4 Basic tooth numberir 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 examinatior 2 11 Clinical examinatior			

		2 12 Deciduous teeth 2 13 Clinical examinatior 2 14 Clinical examinatior 2 15 Prevention of denta caries / part 1 2 16 Prevention of denta caries / part 2 2 17 Fluoride 2 55 18 Periodontal disease 2 19 Indices for plaque assessment 2			

		20 Clinical examinatior 2 21 Clinical examinatior 2 22 Indices for calculus assessment 2 23 Clinical examinatior 2 24 Clinical examinatior 2 25 Gingival disease indices 2 26 Clinical examinatior 2 27 Clinical examinatior 2 28 Periodontal disease prevention 2 29 Tooth brushing 2			

		30 Clinic……assistant			

11. Course Evaluation 1st semester 15% mid 10% 2nd semester15% final60%
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	- Preventive and Commun Dentistry Public Hea DentistryThird Edition. - Textbook of Public Hea Dentistry, CM Marya, JAYP BROTHERS MEDIC PUBLISHERS (P) LTD,201
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:
Oral Surgery
2. Course Code:
422OS
3. Semester / Year:
Semester I and II /4th Year
4. Description Preparation Date:
2023/2024
5. Available Attendance Forms:
Recording the student's attendance in Theoretical and Practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hrs. for Theoretical **180 hrs. for Practical** **210 hrs. (Total)/ 8 units (Total)**
7. Course administrator's name (mention all, if more than one name)
Name: Email:
8. Course Objectives
Course Objectives **1- Acquire basic knowledge about oral surgery.** **2-Dental management of patients with chronic and infectious diseases.** **3- Basic knowledge about minor surgical procedures.** **4-Dealing with infections of the mouth, face and jaws.**
9. Teaching and Learning Strategies

Strategy	• **Lectures using power point (data show)** • **Tooth extraction clinics** • **Preparing seminars by students under the supervision of professors**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Review of the management of common medical conditions	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
2&3	2	Basic principles of surgery	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4	1	Incisions and flaps in surgery	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5,6,7,8 &9	5	Management of the impacted teeth	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
10&11	2	Periapical and endodontic surgery	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12,13, 14&15	4	Cysts of the jaw and soft tissue swellings	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
16,17 &18	3	principles of odontogenic infections	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
19,20 &21	3	Surgical management & diagnosis of common bone diseases & Osteomyelitis	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
22,23 &24	3	Surgical aids to orthodontics: orthognathic surgery planning	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
25,26 &27	3	Pre-prosthetic surgery	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
28,29 &30	3	Differential diagnosis of head and neck lumps and swellings	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
Total	30				

11. Course Evaluation

First semester	15%
Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60%
Total	100%

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	**Little and Falace's Dental Management of the Medically Compromised Patient 9th Edition , 2018. - Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier).**
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Clinical requirement

Extraction of simple cases	**6 Hours/ week** **180 Hours/ Year**
Seminars of oral surgery	

Course Description Form

1. Course Name:
Periodotology
2. Course Code:
3. Semester / Year:
Fourth academic year/first and second semester
4. Description Preparation Date:
2024 – 2 – 20
5. Available Attendance Forms:
Registering students' names using approved absence forms
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hrs theoritical – 120 hrs practical
7. Course administrator's name (mention all, if more than one name)
Name: Zainab Abdul hassein Email: zahasan@uowasit .edu.iq
8. Course Objectives

Course Objectives Objectives of the study subject	**• Increasing health awareness of oral and dental health among citizens…..** **• Treating those suffering from gingivitis and perioral inflammation** **• The teaching aspect through giving lectures, scientific seminars, and seminars…..** **• The therapeutic and preventive aspect…..**

9. Teaching and Learning Strategies	
Strategy	1- How to deliver lectures using Power Point 2- Continuous discussion through asking questions and answers in the hall stimulates the student to self-thinking and self-education 3- Use educational pictures and videos

10. Course Structure

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

11. Course Evaluation

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

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

Teaching method	Evaluation method	Theoretical content	اسم الوحدة أو / الموضوع	الساعات	الاسبوع
Exams Practical, short, quarterly, and Mid-year and final	Theoretical lecture using the program Power point	**Histology of the periodontium,terms & definitions frequently used in periodontology**	Periodotology	1	1
Exams Practical, short, quarterly, and Mid-year and final	Theoretical lecture using the program	**Gingiva**	Periodotology	2	2
Exams Practical, short, quarterly, and Mid-year and final	Power point	**Periodontal ligament**	Periodotology	2	4
Exams Practical, short, quarterly, and Mid-year and final	Theoretical lecture using the program	**Alveolar bone**	Periodotology	1	6

Exams Practical, short, quarterly, and Mid-year and final	محاضرة نظرية باستخدام برنامج power point	**Root cementum**	Periodotology	1	7
Exams Practical, short, quarterly, and Mid-year and final	محاضرة نظرية باستخدام برنامج power point	**Etiology of periodontal disease &risk factors**	Periodotology	2	8
Exams Practical, short, quarterly, and Mid-year and final	محاضرة نظرية باستخدام برنامج power point	**Microbial dental plaque**	Periodotology	2	10
Exams Practical, short, quarterly, and Mid-year and final	Theoretical lecture using the program Power point	**Dental calculus &tooth stain**	Periodotology	2	12
Exams Practical, short, quarterly, and Mid-year and final	محاضرة نظرية	**Pathogenesis of periodontal disease**	Periodotology	2	14
Exams Practical, short, quarterly, and Mid-year and final	باستخدام برنامج power point		Periodotology		**15**
Exams Practical, short, quarterly, and	محاضرة نظرية باستخدام برنامج pow	**Classification of periodontal disease**	Periodotology	1	16

Mid-year and final	er poi nt				
Exams Practical, short, quarterly, and Mid-year and final	محاضرة نظرية باستخدام برنامج pow er poi nt	**plaque&non plaque induced gingivitis**	Periodotology	1	17
Exams Practical, short, quarterly, and Mid-year and final	محاضرة نظرية باستخدام برنامج pow er poi nt	**Chronic &aggressive periodontitis**	Periodotology	1	18
Exams Practical, short, quarterly, and Mid-year and final	محاضرة نظرية باستخدام برنامج pow er poi nt	**Acute periodontal conditions**	Periodotology	1	19
Exams Practical, short, quarterly, and Mid-year and final	محاضرة نظرية باستخدام برنامج pow er poi nt	**Perio-endo lesion**	Periodotology	1	20
Exam s Practi cal, short, quart erly, and Mid-year and final	محاضرة نظرية باستخدام برنامج pow er poi nt	**Periodontal disease prevention &diet**	Periodotology	2	21

Exams Practical, short, quarterly, and Mid-year and final	محاضرة نظرية باستخدام برنامج power point	**Treatment of periodontal disease**	Periodotology	1	23

	Infrastructure . 11
Clinical Carranza's and Newman Periodontology thirteen edition	Required prescribed books .1

المتحانات القصيرة, و الفصلية, و نصف السنة و النهائي	محاضرة نظرية باستخدام برنامج power point	**Cause related phase**	Periodotology	2	24
المتحانات القصيرة, و الفصلية, و نصف السنة و النهائي	محاضرة نظرية باستخدام برنامج power point	**Corrective phase**	Periodotology	3	26
Exams	Theoretical lecture	**Maintenance phase**	Periodotology	1	29

	.(Main references (sources
Reports published on the college website	) Recommended books and references ,scientific journals, reports)
College website	Electronic references, websites , Internet

requirement Clinical	**treatment of Type**
year\h 75 week\h2.5	**polishing & Scaling points 4000min.= points 7000max.=**

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

Course Description Form

1. Course Name:

Orthodontic

2. Course Code:

426OD

3. Semester / Year:

Semester I and II /4th Year

4. Description Preparation Date:

03-10-2023

5. Available Attendance Forms:

Recording the student's attendance in Theoretical and Practical lectures

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

30 hrs. for Theoretical
120 hrs. for Practical
150 hrs. (Total)/ 6 units (Total)

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

Name: Assist. Lect. Mostafa Kareem Sofar
Email: Mksofar@uowasit.edu.iq

8. Course Objectives

Course Objectives

After each of the following specific lecture topics students will be expected to be able to:

- **Understand the normal growth and development of human body in general and the craniofacial structures in specific.**
- **Identify the types of malocclusions.**
- **Recognize the most common etiological factors for malocclusion.**

Distinguish appropriate type of different orthodontic appliances to treat malocclusion.

9. Teaching and Learning Strategies

Strategy

- ✔ Presenting lectures using PowerPoint
- ✔ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus self-learning.
- ✔ Innovative educational methods, such as scientific educational pictures, applying procedures, and showing an educational video
- ✔ Training laboratories to learn the mechanism of making removable orthodontic appliances.

10. Course Structure

Week	Hours	Required Learning Outcomes/theory	Required Learning Outcomes/practical	Unit or subject name	Learning method	Evaluation method
1	1 theory+ 4 practical	**Introduction** • Definition of orthodontics • Definition of occlusion, normal, ideal and malocclusion	Seminar 1 (Introduction to orthodontics)	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
2	1 theory+ 4 practical	• Six keys of normal occlusion • Aims of orthodontic treatment	Seminar 2 (Types of orthodontic appliances) (Introduction to removable appliance)	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

3	1 theory+ 4 practical	• Important orthodontic definitions • Classification of malocclusion	Seminar 3 (Orthodontic Pliers)	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4	1 theory+ 4 practical	**Growth and development** • Definitions of growth, development and maturity • Stages of development (ovum till birth)	Seminar 4 (Stainless steel alloy properties)	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5	1 theory+ 4 practical	• Theories of bone growth • Definitions of growth site, growth center, displacement, and drift	Seminar 5 (Principles of wire bending)	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
6	1 theory+ 4 practical	• Growth curve and maximum growth spurt • Prenatal and postnatal growth and development of hard tissues	Wire bending training	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
7	1 theory+ 4 practical	• Prenatal and postnatal growth and development of soft tissues • Developmental anomalies	Z-Spring	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
8	1 theory+ 4 practical	• Jaw rotation • Compensation and adaptation	Recurved Z-Spring	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
9	1 theory+ 4 practical	**Deciduous and permanent dentition** a-Stages of tooth development: (Formation, calcification and root completion)	Review	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
10	1 theory+ 4 practical	b-Tooth eruption (stages and theories),	Simple Finger Spring	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam

		Sequences and timing of eruption				and Final exam.
11	1 theory+ 4 practical	**Development of occlusion** a. new born oral cavity. b. Deciduous dentition stage - Dental changes till 6 years of age	Modified Finger Spring	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12	1 theory+ 4 practical	c. Early mixed dentition stage - eruption of first molars and incisors. d. Late mixed dentition stage - eruption of canines and premolars e. Permanent dentition - eruption second and third molars.	Review	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
13	1 theory+ 4 practical	**Etiology of malocclusion:** • Genetic and inherited etiological factors of malocclusion	Buccal Canine Retractor	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
14	1 theory+ 4 practical	**Classification of etiological factors** a. General factors i. Skeletal factors	Modified Buccal Canine Retractor	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
15	1 theory+ 4 practical	ii. Soft tissue factors	Review	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
16	1 theory+ 4 practical	iii. dental factors	Quarterly Exam	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
17	1 theory+ 4 practical	b. Local factors (definitions without treatment)	Adams' Clasps on Upper Right 1st Molar	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

18	1 theory+ 4 practical	**Tooth movement** a. Tissue changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth movement b. Accelerated tooth movement.	Adams' Clasps on Upper Left 1st Molar	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
19	1 theory+ 4 practical	c. Biomechanics i. Force (application, type, magnitude, duration and direction) ii. Center of resistance and rotation, moment of force and moment of couple. iii. Types of tooth movement. iv. Rate of tooth movement and factors affecting it.	Adams' Clasps on Upper Right 1st Premolar	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
20	1 theory+ 4 practical	d. iatrogenic effect of tooth movement (pain, mobility, pulp effect, root resorption, white spot lesions).	Double Adams' Clasps on Upper Right 2nd premolar &1st molar	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
21	1 theory+ 4 practical	**Biomechanics**	Review	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
22	1 theory+ 4 practical	**Anchorage** (definition, indications, types)	Fitted Labial Arch	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
23	1 theory+ 4 practical	**Orthodontic appliances** a. Overview: i. passive orthodontic appliances (habit breaker,	Hawley Arch	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

		retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination) iii. Other active appliances: space regainer, Invisalign				
24	1 theory+ 4 practical	**Removable Orthodontic Appliance:** i. Properties of various components (SS wire, acrylic) ii. Components: 1) active components (springs, screws and elastics) 2) retentive components (clasps) 3) acrylic base plate and bite planes 4) anchorage	Review	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
25	1 theory+ 4 practical	iii. Design of a removable orthodontic appliance iv. Construction of a removable orthodontic appliance v. Soldering and welding vi. Post-insertion instructions and guidelines	Robert's Retractor	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
26	1 theory+ 4 practical	c. Fixed orthodontic appliance: Types, components, advantages, limitation,	Acrylic baseplate	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

		biomechanics, banding vs. bonding				
27	1 theory+ 4 practical	d. Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action	Soldering and Welding	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
28	1 theory+ 4 practical	Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action	Review	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
29	1 theory+ 4 practical	f. Retention and retainers Retention (definition, reason, time)	Quarterly Exam	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
30	1 theory+ 4 practical	Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)	Final Exam	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
Total	150 hrs.					

11. Course Evaluation

First semester	15%
Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60%
Total	100

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary Orthodontics, William R. Proffit Sixth edition
Main references (sources)	Textbook of Orthodontics Singh 2007
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name:	
Oral Pathology	
2. Course Code:	
3. Semester / Year:	
2023-2024	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 Theoretical, 90 Practical / 5 Units.	
7. Course administrator's name (mention all, if more than one name)	
Saba'a Radhi	
8. Course Objectives	
Course Objectives	1- Enabling students to diagnose and treat various oral diseases 2- Training students on the use of an optical microscope and how to diagnose pathological tissue 3- Enabling students to distinguish normal tissue conditions from pathological conditions 4- Enabling students to make both clinical and histological diagnosis
9. Teaching and Learning Strategies	
Strategy	• Developing the student's ability to deal with a patient for the purpose of taking a proper medical history. • Increasing the student's skills on how to link various body diseases with oral diseases. • Developing the student's ability to distinguish between pathological and non-pathological conditions

10. Course Structure

Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
Lectures + Slides of Pathologies and radiographs of pathologies	Introduction to biopsy in oral diseases and its types	Biopsy in oral diseases	60 Theoretical + 90 Practical	1.
=	Wound healing after extraction and biopsy	Wound healing in the mouth	=	2.
=	Tooth decay - types - histological anatomy of caries	Tooth decay	=	3
=	Dental pulpitis and its types	Dental pulp diseases	=	4
=	Diseases around the apex of the root	Diseases around the apex of the root	=	5.
=	Inflammatory bone diseases of all kinds	Inflammatory bone diseases	=	6.
=	Deformities associated with tooth growth in terms of size, shape, number, structure and eruption of teeth	Dental growth disorders	=	7.
=	Growth disorders in soft and hard tissues	Growth disorders in soft and hard tissues	=	8.
=	What are they and what are their types	The bags are not Sunni in origin	=	9.
=	Inflammatory and developmental cysts	Dental cysts	=	10.
=	What are the origin of dental tumors and what are their divisions	Dental tumors of origin -1-	=	11.
=	Dental tumors of origin	Dental tumors of origin -2-	=	12.
=	Benign epithelial	Benign epithelial lesions and	=	13.

		lesions and leukoplakia	leukoplakia		
	=	Hypertrophy of epithelial tissue, dystrophy, dysplasia	Hypertrophy of epithelial tissue, dystrophy, dysplasia	=	14.
	=	Squamous cell carcinoma, wart carcinoma and basal cell carcinoma	Squamous cell carcinoma and other epithelial tumors	=	15.
	=	Bone fibrous lesions, metabolic and genetic diseases of the bones	Bone fibrous lesions, metabolic and genetic diseases of the bones	=	16.
	=	Central and peripheral, blood cysts and hyperparathyroi dism	Giant cell lesions	=	17.
	=	What are they and what are their types	Bone polyps	=	18.
	=	What are they and what are their types	Malignant tumors of the bone	=	19.
	=	Types of viral diseases of the mouth	Viral infections	=	20.
	=	Bacterial and fungal lesions of the mouth	Bacterial and fungal infections of the mouth	=	21.
	=	Oral diseases and ulcers associated with immune disorders	Immune disorders	=	22.
	=	Oral diseases and ulcers associated with immune disorders	Immune disorders	=	23.
	=	Connective tissue lesions (fibrous and bloody tissue tumors)	Connective tissue lesions -1-	=	24.
	=	Connective tissue lesions (neuronal, muscular, smooth and fat	Connective tissue lesions -2-	=	25.

		cell tumors)			
	=	Diseases of the salivary gland	Diseases of the salivary gland	=	26.
	=	Salivary gland tumors	Salivary gland tumors	=	27.
	=	Physical and chemical injuries	Physical and chemical injuries	=	28.
	=	Hematopoietic tumors	Hematopoietic tumors	=	29.
	=	Forensic dentistry	Forensic dentistry	=	30.

11. Course Evaluation

Daily preparation, daily oral, monthly, or written exams, reports .

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	**Oral and maxillofacial pathology. Brad Neville,Douglas Damm Carl Allen and Jerry Bouquot. 4th edition. 2016, Elsevier**
Main references (sources)	**Robinson, Max, Keith Hunter, Michael Pemberton, and Philip Sloan. Soames'& Southam's Oral Pathology. 2018, Oxford University**
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:General Medicine

2. Course Code:

3. Semester / Year: 1&2 semester 4th year

4. Description Preparation Date: 20−2−2024

5. Available Attendance Forms: Students theoretical and practical lectures

6. Number of Credit Hours (Total) / Number of Units (Total) 30 hours theoretical 60 hours clinical = 90 hours total - 4units

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

Name: Name: Assist. Prof. Dr. Aseel Hamza Albahili
Email: :aalbaheli@uowasit.ed.iq

8. Course Objectives

Course Objectives information about general med diseases in community for diagnosis , treatment, control prevention of of diseases	• ….. • ….. • …..

9. Teaching and Learning Strategies

Strategy	Get skills and learning about general medical diseas diagnosis ,treatment and prevention

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1		Introduction	Power	Attendance

3-4-5 6-7 8-9 10-11 12-13 14-15 16-17 18-19 20-21 22-23 24-25 26-27 28-29 30	3 2 2 2 2 2 2 2 2 2 2 2 2 1		Anemia Leukemia Blood coagulation Nutritional deficiency Heavy metal poisoning Inflamed throat Cardiovascular disease Rheumatic heart Diseases Bacterial endocarditis Diseases of bone Diseases of Joint Skin disorder Urinary tract infection Venereal diseases Practical Sessions practical seminars and clinical	points smarts screen	weekly quiz semester ex mid term ex and final exa

11. Course Evaluation 1st semester 15% mid 10% 2nd semester15% final60%
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Dental Management of t Medically Compromised Patie Ninth Edition, 2018 2. Essentials Medicine for Dental Students
Main references (sources)	
Recommended books and references	

(scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:

General surgery

2. Course Code:

424 GS

3. Semester / Year:

Semester I and II / fourth Year

4. Description Preparation Date:

2023−2024

5. Available Attendance Forms:

Recording the student's attendance in Theoretical and Practical lectures

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

30 hrs. for Theoretical
60 hrs. for Practical
90 hrs. (Total)/ 4 units (Total)

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

Name:
Email:

8. Course Objectives

Course Objectives After each of the following specific lecture topics students will be expected to be able to:	• have a high level of knowledge regarding general surgery • recognition On general surgical cases, methods of diagnosing and treating them • their relationship to his precise specialty as a dentist.

9. Teaching and Learning Strategies

Strategy	✔ Presenting lectures using PowerPoint ✔ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus self-learning. ✓ Innovative educational methods, such as scientific educational pictures ✓ Acquire knowledge of general surgical cases ✓ Diagnosis and treatment methods ✓ Its relationship to his specialty as a dentist

10. Course Structure

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

1+2	2theory	Principles of history taking.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
3+4	2theory	Principles of clinical examination.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
5+6	2theory	Surgical wound and infections.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
7+8	2theory	Fracture of bone and dislocations.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
9+10	2theory	Healing.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
11+12	2theory	Head injuries and multiple trauma.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
13+14	2theory	Hemorrhage and blood transfusion.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
15+16	2theory	Parental feeding.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
17+18	2theory	Swelling in the neck.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam

19+20	2theory	E.N.T. disorders relevant to the dentist.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
21+22	2theory	Disease of esophagus.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
23+24	2theory	Post-operative care.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
25+26	2theory	Benign and malignant tumors.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
27+28	2theory	Chest trauma and chest diseases.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
29+30	2theory	Congenital deformities.	General surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid-term exam and Final exam
Total	30				

11. Course Evaluation

First semester	15%
Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60%
Total	100

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Baily and Love's short practice of surgery 27th edi 2018.
Main references (sources)	

Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Clinical sessions

Lab No.	Study unit title	Hours
1	History taking	**2**
2	History taking	**2**
3	How to fill case sheet	**2**
4	General Examination	**2**
5	Pulse rate measurement	**2**
6	Blood pressure measurement	**2**
7	Body temperature	**2**
8	Respiratory rate measurement and oximetry (oxygen saturation)	**2**
9	Head &Neck examination	**2**
10	Cranial nerve examination	**2**
11	Abdominal examination	**2**
12	Abdominal examination	**2**

13	pelvic examination	**2**
14	pelvic examination	**2**
15	Upper limb examination	**2**
16	Lower limb examination	**2**
17	Central nervous system &Peripheral nervous system.	**2**
18	Intramuscular &Intravenous injections	**2**
19	Types of fluids	**2**
20	Types of solutions	**2**
21	Examination of the cardiovascular system	**2**
22	X-Rays	**2**
23	U\S	**2**
24	MRI	**2**
25	Specific laboratory examination	**2**
26	Laboratory examination	**2**
27	CT scan	**2**
28	Types of drains	**2**

29	Manifestation of endocrine disease	**2**
30	Manifestation of endocrine disease	**2**
Total		**60**

Course Description Form

1. Course Name:
Restorative and operative dentistry
2. Course Code:
3. Semester / Year:
Semester I and II / 4th Year
4. Description Preparation Date:
21/02/2024
5. Available Attendance Forms:
Recording the student's attendance in Theoretical and Practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
Theory: Operative: 22hrs/year Endodontics: 8hrs/year Total theory: 30 hrs. Practical: Clinical requirement: 3hrs/week Total practical: 90hrs. Overall total hours: 120 hrs. Number of credits: Theory: 2/Clinical: 6
7. Course administrator's name (mention all, if more than one name)
Name: Dr Widad AL-Omairi Email: Dr.WidadOmairi2@outlook.com
8. Course Objectives
Course Objectives **At the end of the course the student will be able to:** At the end of the course in Restorative and Aesthetic Dentistry focusing on Conservative Dentistry, students will have gained a comprehensive understanding and practical skills in a range of areas related to conservative dental procedures. **Here's what they will be able to learn and achieve:** Knowledge and Understanding: ❖ **Biological Considerations:** ➢ Understand the structure of enamel and dentin and their clinical significance in operative dentistry. ➢ Grasp the importance of biologic considerations in treatment planning and execution. ❖ **Patient Evaluation and Diagnosis:** ➢ Perform thorough patient evaluations. ➢ Understand the process of diagnosis and treatment planning for various

dental conditions.

- **Caries Management:**
  - Have a deep understanding of caries management, including diagnosis and treatment strategies.
  - Manage both carious and non-carious lesions, particularly cervical lesions.
- **Restorative Dentistry:**
  - Understand principles of restorative dentistry and its relationship to pulpal health.
  - Learn techniques for managing deep-seated caries and inflammatory conditions of the pulp.
- **Materials and Techniques:**
  - Understand and work with fluoride-releasing materials.
  - Gain knowledge in indirect aesthetic adhesive restorations (inlays and onlays) using CAD/CAM technology.
  - Learn techniques for direct tooth-colored restorations (Composite).
  - Understand the use of dental lasers and their applications in conservative dentistry.
- **Advanced Procedures:**
  - Gain proficiency in techniques of posterior composite inlay/onlay restoration systems.
  - Learn procedures for ceramic veneers, inlays, and onlays.
  - Understand CAD/CAM techniques for dental restorations.
- **Practical Skills: Operative Dentistry:**
  - Perform amalgam restorations for Class I and Class II cavities.
  - Execute composite (tooth-colored) restorations for Class I, II, III, IV, and V cavities.
- **Endodontics:**
  - Understand the objectives and basic phases of endodontic treatment.
  - Perform access opening preparations and use endodontic instruments.
  - Learn and apply Roentgenography in endodontics.
  - Gain practical experience in root canal preparation and obturation.
- **Clinical Requirements:**
  - Complete clinical requirements for preclinical endodontics, including various procedures from diagnosis to obturation.
- **Clinical Competence:** Operative Procedures:
  - Independently perform a range of operative procedures including amalgam and composite restorations.
  - Demonstrate proficiency in managing various types of cavities and lesions.

❖ **Endodontic Procedures:**

- Execute endodontic treatments including access opening, root canal preparation, and obturation.
- Understand and manage different pulp pathologies and periapical diseases.

Overall Outcome:

By the end of this course, students will have developed a strong foundation in conservative dentistry. They will be able to:

- Perform comprehensive patient evaluations and diagnosis.
- Plan and execute treatment strategies for caries and other dental conditions.
- Demonstrate proficiency in a wide range of restorative and endodontic procedures.
- Utilize modern technologies such as dental lasers and CAD/CAM for restorations.
- Apply their knowledge and skills in both theoretical and practical clinical settings.
- Have the necessary competencies to enter professional practice with confidence in conservative and aesthetic dentistry.

9. Teaching and Learning Strategies

1. **Lectures**
2. **Case studies:** including real-life scenarios of clinical presentations cases a discussion groups.
3. **Hands on workshops:** clinical simulation context
4. **Operative Dentistry Workshops:** students to practice amalgam and composite restorations on models.
5. **Endodontic Workshops:** Hands-on sessions for access opening, root canal preparation, and obturation techniques.
6. **Material Handling:** Workshops on handling and manipulating various restorative materials.
7. **Supervised clinical practice:** students work on clinics under supervision.
8. **Demonstrations:**

- Live Demonstrations: Conduct live demonstrations of procedures by instructors.
- Video Demonstrations: Use pre-recorded or online videos to demonstrate step-by-step procedures.

9. **Problem-Based Learning (PBL):**

- Case Scenarios: Provide students with complex cases and guide them through the process of diagnosis and treatment planning.
- Group Discussions: Encourage students to work together to solve problems, fostering critical thinking and collaboration.

10. **Research Projects:**

- Literature Reviews: Assign topics for students to research current trends and advancements in conservative dentistry.
- Poster Presentations: Have students present their findings in poster sessions to the class.

11. **Guest Speakers:**

- Industry Professionals: Invite practicing dentists or specialists to share their experiences and insights.
- Manufacturers: Have representatives from dental material manufacturers showcase the latest products and techniques.

10. Course Structure:
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 Caries Simplified 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

Clinical Requirements

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

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

Clinical requirements (Preclinical Endodontic)

Lab number	Study unit title	Hours
1	Introduction	3
2	Block construction	3
3	Diagnosis	3
4	Quiz 1 in lab 1,2&3 +Access opening	3
5 6 7	Quiz 2 in lab 4 +Clinical access opening to one anterior tooth and two premolar teeth	3 3 3
8	Instrument	3
9	Equipment and materials	3
10	Quiz 3 clinical quiz in lab 8&9, Working length estimation demonstration .	3
11 12 13 14	Quiz 4 in lab 11 + clinical working length estimation on the same three teeth .	3 3 3 3
15	Rubber dam application	3
16	Quiz 5 clinical quiz in lab 15	3
17	Review	3
18	Root canal instrumentation .	3
19 20 21 22 23	Quiz 6 in lab 18 + clinical instrumentation to the same teeth	3 3 3 3 3
24	Root canal obturation.	3
25 26 27	Quiz 7 in lab 24 +clinical obturation to three teeth.	3 3 3
28 29 30	Review	3 3 3
Total		90

11.Course Evaluation	
First semester	15%
Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60% (30% theoretical exam, 20% practical clinical exam)
Total	100

12.Learning and Teaching Resources	
Required textbooks (curricular boo if any)	Operative: ➢ Summitt's fundamentals of operative dentistry: A contemporary approach. 4th edition. ➢ Dental composite materials for direct restorations. Vesna Miletic Springer, eBook, 2018. ➢ Textbook of operative dentistry. 3rd edition. Nisha Garg, Amit Garg. **Endodontics resources:** ➢ Cohen's Pathways of the Dental Pulp. 12th ed. Louis H. Berman and Kenneth M. Hargreaves. ➢ Textbook of Endodontics. 2nd ed. 2010. Nisha Garg, Amit Garg.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name:
prosthodontics
2. Course Code:
510PR
3. Semester / Year:
Semester I and II / fifth Year
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Recording the student's attendance in Theoretical and Practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hrs. for Theoretical 180 hrs. for Practical 210 hrs. (Total)/ 8 unit
7. Course administrator's name (mention all, if more than one name)
Name: Email:
8. Course Objectives
Course Objectives *At the end of the course the student will be able to:* ***Ability to explain to a patient the treatment process.** ***Ability to undertake therapy in a safe manner.** ***Ability to recognize and deal with complications that may aris.** **The objectives are to acquire (a) Knowledge (b) Skills and(c) Attitudes.** **1. Willing to applying the current knowledge of dentistry in the best interest of the patients and the community** **2. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life,to examine, diagnose and formulate a treatment plan to deal with edentulous conditions by way of providing suitable prosthesis** ***-Understand the clinical steps required for the repair a complete denture or partial denture.** ***mangment insertion and post insertion problems for the complete denture**
9. Teaching and Learning Strategies
Strategy ✔ Method of delivering the lecture using PowerPoint ✔ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus to self-learning. ✔ innovative educational methods, such as scientific instructional pictures, the procedure application, and displaying an educational video that brings the material closer to the students' minds.
10. Course Structure

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

1	1	Occlusion in Complete Dent	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
2	1	Occlusion in Complete Dent (Continue)	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
3	1	Retention, Stability And Support	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4	1	Retention, Stability And Support (Continue)	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5	1	Post Insertion Problems	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
6	1	Post Insertion Problems (Continue)	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
7	1	Complications Of Complete Denture	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

8	1	Complications Of Complete Denture (Continue)	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
9	1	Immediate Denture	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
10	1	Immediate Denture (Continu	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
11	1	Classification system for completely edentulous patier	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12	1	Classification system for completely edentulous patier (Continue)	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
13	1	Posterior palatal seal area	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
14	1	Single CD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

15	1	Single CD (Continue)	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
16	1	Geriatric dentistry	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
17	1	Maxillofacial Prosthesis	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	1	Maxillofacial Prosthesis (Continue)	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
19	1	Residual Ridge resorption	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
20	1	Residual Ridge resorption (Continue)	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
21	1	Dental implantology	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

22	1	Dental implantology (Continue)	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
23	1	Esthetics in CD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
24	1	Characteristics Of Ideal Materials For Dental Implan	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
25	1	Copy denture	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
26	1	Over Denture	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
27	1	Over Denture (Continue)	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
28	1	Neutral zone in CD	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

29	1	Attachments in over denture	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
30	1	Attachments in over denture (Continue)	prosthodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
Total	30 hrs				

Clinical requirement

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

11.Course Evaluation

First semester	15%
Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60%
Total	100%

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Zarb, Hobkirk, Eckert, Jacob et al. Prosthodontic treatment for edentulous patients: Complete dentures and implant-supported prostheses.13th edition 2013 by Mosby, Elsevier Inc.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	

Electronic References, Websites	▪ Golden and Driscoll. Treating the compl denture patient. 1st edition 2020 John Wiley Sons, Inc . ▪ Rahn, Ivanhoe and Plummer. Textbook complete dentures.6th edition 2009 Peopl Medical Publishing House-USA.

Course Description Form

1. Course Name:
Oral surgery
2. Course Code:
522OS
3. Semester / Year:
Semester I and II /5th Year
4. Description Preparation Date:
2023/2024
5. Available Attendance Forms:
Recording the student's attendance in Theoretical and Practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hrs. for Theoretical **180 hrs. for Practical** **210 hrs. (Total)/ 8 units (Total)**
7. Course administrator's name (mention all, if more than one name)
Name: Email:
8. Course Objectives
Course Objectives **1-Acquire basic knowledge about the principles of oral and maxillofacial surgery** **2-Acquire basic knowledge about dental implants**
9. Teaching and Learning Strategies

Strategy	• **Lectures using power point (data show)** • **Dental extraction clinics, minor operations and surgical diagnosis** • **Preparing seminars by students under the supervision of professors**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1&2	2	Paranasal sinuses surgical management	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
3&4	2	Salivary glands surgery	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5&6	2	TMJ conditions and surgical approach	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
7,8,9,10 &11	5	Oral cancer and precancerous lesions	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12,13, 14,15, 16&17	6	Maxillofacial trauma	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18,19 & 20	3	Orthognathic surgery	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
21&22	2	Reconstruction and facial aesthetic	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
23,24& 25	3	Implant dentistry	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
26&27	2	Laser & Cryosurgery in oral surgery	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
28	1	Facial pain	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
29&30	2	Odontogenic Infection	Oral Surgery	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
Total	30				

11. Course Evaluation

First semester	15%
Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60%
Total	100%

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	**Contemporary oral and maxillofacial surgery 7th Edition 2019 (Elsevier).**
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Clinical requirement

Extraction of simple cases	**6 Hours/ week** **180 Hours/ Year**
Surgical operations	
Seminars of oral surgery	

Course Description Form

1. Course Name:	
Oral Medicine	
2. Course Code:	
3. Semester / Year:	
Fifth Stage/ 2023 −2024	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 Theoretical, 120 Clinical	
7. Course administrator's name (mention all, if more than one name)	
Name: Hussein Haleem Jasim Email: hhaleem@uowasit.edu.iq	
8. Course Objectives	
Course Objectives	1− Enabling students to study general medicine because of its impact on process of oral diagnosis and dental treatment 2− Enabling students to recognize scientific research tools and use them the academic and practical fields 3− Keeping up with modern scientific developments in dental sciences an working to employ them, and enabling students to become familiar with th latest medical devices in diagnosis and treatment. 4− Harmonizing theoretical trends with practical reality in dental sciences. 5− Enabling students to acquire vital and basic medical sciences and le about oral diseases, maxillofacial diseases, and jaw joint diseases, th diagnosis, and treatment methods.
9. Teaching and Learning Strategies	
Strategy	• Developing the student's ability to deal with a patient for the purpose of taking a proper medical history. • Increasing the student's skills on how to link various body diseases with oral diseases. • Developing the student's ability to distinguish between pathological and non-pathological conditions
10. Course Structure	

Evaluating method	Learning method	Unit or subject name	Hours	The week
Exams. Clinical requirements and Seminars	+ Lecture Clinic	Principles of diagnosis	1Theoretical ٤ Clinical	1-
=	Lecture + Clinic	Principles of diagnosis	=	2-
=	Lecture + Clinic	Laboratory examination in the field of dentistry	=	3-
=	Lecture + Clinic	Laboratory examination in the field of dentistry	=	4-
=	Lecture + Clinic	Facial pain	=	5-
=	Lecture + Clinic	Facial pain	=	6-
=	Lecture + Clinic	Temporomandibular joint disorders	=	7-
=	Lecture + Clinic	Temporomandibular joint disorders	=	8-
=	Lecture + Clinic	Oral and bullous sores	=	9-
=	Lecture + Clinic	Oral and bullous sores	=	10-
=	Lecture + Clinic	Oral and bullous sores	=	11-
=	Lecture + Clinic	Red and white oral lesions	=	12-
=	Lecture + Clinic	Red and white pests	=	13-
=	Lecture + Clinic	Red and white pests	=	13-
=	Lecture + Clinic	Early detection of oral cancer	=	14-
=	Lecture + Clinic	Early detection of oral cancer	=	15-
=	Lecture + Clinic	Pigmented oral lesions (chromosome)	=	6-
=	Lecture + Clinic	Pigmented oral lesions (chromosome)	=	17-
=	Lecture + Clinic	Malignant and benign cancerous lesions affecting the mouth and jaws	=	18-
=	Lecture + Clinic	Malignant and benign cancerous lesions affecting the mouth and jaws	=	19-
=	Lecture + Clinic	Malignant and benign cancerous lesions affecting the mouth and jaws	=	20-

=	Lecture + Clinic	Malignant and benign cancerous lesions affecting the mouth and jaws	=	**21-**
=	Lecture + Clinic	Diseases Neuromuscular disorders of the face	=	**22-**
=	Lecture + Clinic	Diseases Neuromuscular disorders of the face	=	**23-**
=	Lecture + Clinic	Diseases associated with the salivary glands	=	**24-**
=	Lecture + Clinic	Diseases associated with the salivary glands	=	**25-**
=	Lecture + Clinic	Autoimmune diseases	=	**26-**
=	Lecture + Clinic	Autoimmune diseases	=	**27-**
=	Lecture + Clinic	Autoimmune diseases	=	**28-**
=	Lecture + Clinic	Oral manifestations associated with allergic reactions	=	**29-**
=	Lecture + Clinic	Oral manifestations associated with allergic reactions	=	**30-**

11. Course Evaluation

Weekly, monthly and annual exams, seminars, X-ray evaluation

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Burket's oral medicine. Michael Glick, Martin Greenberg, Peter Lockhart and Dtephen Challacombe. 13th edition.2021, Wiley Black well. 2. Bumann, A., & Lotzmann, U. TMJ disorders and orofacial pain. The role of dentistry in a multidisciplinary approach. 2011, Thieme. 3. Little, James W., Craig Miller, and Nelson L. Rhodus. Dental management of the medically compromised patient. 2017, Elsevier Health Sciences.
Main references (sources)	
Recommended books and references (scientific	1. Pocket Atlas of Oral Diseas

journals, reports…)	G.Laskaris. 2. Medical Problems in Dentist fifth edition 3. Tyldesley's Oral Medicine, fi edition
Electronic References, Websites	Cawson's essentials of o pathology and oral medici eighth edition

Course Description Form

1. Course Name:
Periodontics
2. Course Code:
528PT
3. Semester / Year:
Semester I and II /5th Year
4. Description Preparation Date:
2023−2024
5. Available Attendance Forms:
Recording the student's attendance in Theoretical and Practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hrs. for Theoretical 180 hrs. for Practical 210 hrs. (Total)/ 8 units (Total)
7. Course administrator's name (mention all, if more than one name)
Name: Email:
8. Course Objectives

Course Objectives After each of the following specific lecture topics students will be expected tope able to:	• **The main goal of the branch is to increase awareness of oral and dental health for everyone and Diagnosis of the causes of patients suffering from chronic diseases** • **The teaching aspect: through giving lectures and holding scientific seminars and surgical operationsto train students on this** • **The diagnostic and preventive therapeutic aspect: The branch currently covers all pathological cases, causes and follow−up , in addition to the**

	preventive aspect related to this topic.

9. Teaching and Learning Strategies

Strategy	✔ Presenting lectures using PowerPoint ✔ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus self-learning. ✔ Innovative educational methods, such as scientific educational pictures ✓ Formulating the information in a way that enables students to understand and increase knowledge regarding the diagnosis and treatment of various gum diseases ✓ Giving students instructions on oral and dental care For patients visiting the College of Dentistry ✓ Students' knowledge of all means of health awareness for visitors To prevent gum diseases and around the teeth. Skills objectives for the course: ✓ Training students to remove internal and external deposits and stains Gum scraping and learning to perform some simple surgical interventions ✓ Giving instructions on oral health care ✓ Learn the preventive aspect of preventing gum disease and preventing the gum condition from getting worse

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1theory	Periodontal examination and diagnosis	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam,Mid term exam and Final exam
2	1theory	Bone loss and patterns of bone destruction	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
3	1theory	Radiographic aids in the diagnosis of periodontal disease	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam

4	1theory	Advanced diagnosis	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
5	1theory	Periodontal response to external forces	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
6	1theory	Immunology	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
7	1theory	Immunology	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
8	1theory	Tooth mobility	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
9	1theory	Epidemiology of periodontal diseases	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
10	1theory	Determination of prognosis	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
11	1theory	Interrelationships of periodontal disease and therapy with other dental disciplines	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
12	1theory	Periodontal surgery. General principles	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam

13	1theory	Sonic and ultrasonic instrumentation and irrigation	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
14	1theory	Gingivectomy and local excision	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
15	1theory	Flap surgery	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
16	1theory	Mucogingival and aesthetic surgery	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
17	1theory	Furcation: involvement and treatment	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
18	1theory	Laser therapy	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
19	1theory	Locally delivered, controlled-release antimicrobials	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
20	1theory	Management of medically compromised patients	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
21	1theory	Management of medically compromised patients	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam

22	1theory	Gingival crevicular fluid (GCF)	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
23	1theory	Dentin hypersensitivity	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
24	1theory	Tissue regeneration. General principles Periodontal Wound Healing	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
25	1theory	Regenerative periodontal therapy	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
26	1theory	Reconstructive surgical techniques	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
27	1theory	Advanced regenerative approaches	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
28	1theory	Oral implantology	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
29	1theory	Oral implantology	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
30	1theory	Oral implantology	**Periodontics**	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid term exam and Final exam
Total	30				

11. Course Evaluation

First semester 15%

Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60%
Total	100

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Newman and Carranza's Clinical Periodontology thirteen edition
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Clinical requirements

Number	Clinical requirements
6hr/week (180hr/year)	**Clinical:** - Recording medical and dental history - Patient's education and motivation - Oral hygiene instructions (OHI) - Recording periodontal indices: ● Bleeding on probing (BOP) ● Plaque index (% of plaque) ● Probing pocket depth (PPD) ● Clinical attachment loss (CAL) - For periodontitis cases, determination of bone loss level by radiograph or clinically - Diagnosis according to classification of periodontal disease and conditions (2017) - Non-surgical periodontal therapy (manual/ultrasonic scaling, root planing) and removal of all plaque retentive factors - Referral of cases that potentially requiring surgical therapy - Maintenance and follow-up after 3 months **Requirements:** - Recording periodontal indices and diagnosis (min= 15) - Non-surgical periodontal treatment: ● Scaling (min= 8) ● Root planing (min= 3 teeth) ● Periodontal surgery assistant (one case optional)

Total	**180 hours/year**

Course Description Form

1. Course Name:

Pedodontics

2. Course Code:

530PAPD

3. Semester / Year:

Semester I and II /5th Year

4. Description Preparation Date:

2023−2024

5. Available Attendance Forms:

Recording the student's attendance in Theoretical and Practical lectures

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

30 hrs. for Theoretical
90 hrs. for Practical
120 hrs. (Total)/ 5 units (Total)

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

Name:
Email:

8. Course Objectives

Course Objectives After each of the following specific lecture topics students will be expected to be able to:	• Understand and comprehend the theoretical and practical methods for treating all cases of children's dental infections • learn about Methods and scientific methods supported by means of explanation • know how to determine deciduous and permanent teeth and related problems

9. Teaching and Learning Strategies

Strategy	✔ Presenting lectures using PowerPoint ✔ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus self-learning. ✔ Innovative educational methods, such as scientific educational pictures ✔ Formulating information in a way that enables students to understand ✔ Increase knowledge regarding diagnosis and treatment of various cases of dental diseases in children ✔ Oral care and dental care and awareness of the importance of preserving primary teeth until permanent teeth emerge In children ✔ B-Skills objectives for the course ✔ Training students on pediatric dental conditions ✔ Giving instructions on how to deal and interact with children ✔ Acquiring skills to diagnose primary and permanent teeth in children

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	1theory	Diagnosis & treatment plan	Pedodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
2+3	2theory	Radiographic techniques	Pedodontics	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
4+5+6	3theory	psychological management of children behavior	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
7	1theory	Morphology Primary teeth	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
8+9+10	3theory	Treatment of Deep caries, vital pulp exposure, and pulpless teeth (pediatric endodontic)	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
11+12+13	3theory	Eruption of human dentition	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
14	1theory	Extraction techniques	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam

15	1theory	local anesthesia for the child & adolescent	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
16+17	2theory	Space maintainer	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
18+19	2theory	Developmental disturbances of the teeth	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
20	1theory	Treatment of disabled patients	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
21	1theory	Restorative dentistry	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
22+23	2theory	Dental trauma	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
24+25	2theory	Management of medically compromised patients	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
26+27+28	3theory	Gingival & periodontal disease in children:	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
29+30	2theory	Nutritional considerations of the pediatric dental patient	Pedodontics	Power point, White board, Videos and smart scree	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam

Total	30				

11. Course Evaluation

First semester	15%
Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60%
Total	100

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier Pediatric Dentistry Damile 3rd ed. 2009 Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delh Hand book of pediatric dentistry (Cameron) mosby/third edition/2008 Principles and practice of pedodontics /Arathi Rao Jaypee/second edition2008 Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Clinical requirements

week	Study unit title	Hours
1	Diagnosis and treatment planning	**3**
2	Preliminary medical and dental history, Clinical examination , Radio graphic examination	**3**
3	Demonstration how to obtain a complete case sheet	**3**
4	Monitoring the developing dentition and recognition of any sign of malocclusion	**3**

5	Types of Caries removal techniques	**3**
6	Restoration of primary and young permanent teeth with variety types of restorative materials	**3**
7	Management of traumatic injuries of the anterior teeth	**3**
8	Minor oral surgery	**3**
9	Minimal intervention dentistry	**3**
10	Pulp therapy for permanent dentition	**3**
11	Pulp therapy for primary dentition	**3**
12	Materials used for pulp therapy	**3**
13	Chrome steel crowns	**3**
14	Management of simple cases of dental anomalies and other developmental defects	**3**
15	Maintenance of pulp vitality by use of regenerative materials	**3**
16	Root canal treatment for anterior non vital teeth	**3**
17	Extraction for non restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment	**3**
18	Management of molar incisor hypomineralization MIH	**3**
19	Behavior management for young patients	**3**
20	Infection control re-assurance and guidance of students	**3**

21	Tooth colored restoration technique	**3**
22	Radiographic prescription and interpretation of results	**3**
23	Space maintainers	**3**
24	Fluoride application as a preventive measure	**3**
25	Amelogenesis imperfecta	**3**
26	Supernumerary teeth and their impact on teeth eruption	**3**
27	Management of medically compromised children	**3**
28	Peg teeth management	**3**
29	ART technique	**3**
30	Prosthesis usage in pediatric dentistry	**3**
Total		**90**

Course Description Form

1. Course Name:

Orthodontic

2. Course Code:

526OD

3. Semester / Year:

Semester I and II /5th Year

4. Description Preparation Date:

03-10-2023

5. Available Attendance Forms:

Recording the student's attendance in Theoretical and Practical lectures

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

30 hrs. for Theoretical
120 hrs. for Practical
150 hrs. (Total)/ 6 units (Total)

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

Name: Assist. Lect. Mostafa Kareem Sofar
Email: Mksofar@uowasit.edu.iq

8. Course Objectives

Course Objectives

After each of the following specific lecture topics students will be expected to be able to:

- **Understand the diagnosis of orthodontic problems.**
- **Select an appropriate treatment plan.**
- **Understand the treatment options for different types of malocclusions.**

9. Teaching and Learning Strategies

Strategy

- ✔ Presenting lectures using PowerPoint
- ✔ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus self-learning.
- ✔ Innovative educational methods, such as scientific educational pictures, applying procedures, and showing an educational video
- ✔ Training clinics to learn the diagnosis and treatment of orthodontic cases using a removable appliances.

10. Course Structure

Week	Hours	Required Learning Outcomes/theory	Required Learning Outcomes/practical	Unit or subject name	Learning method	Evaluation method
1	1 theory+ 4 practical	**Orthodontic diagnosis and treatment planning:** • Personal data • Consent form • Clinical examination i. General body stature	Treatment of at least one patient: • Diagnosis: (Mandatory) a) Case sheet filling & presentation b) Upper and lower impression c) Study models preparation.	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
2	1 theory+ 4 practical	ii. Face examination in 3 dimensions iii. skeletal examination iv. Soft tissue examination		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

3	1 theory+ 4 practical	v. Occlusion	d) Extra and Intra oral photographs. e) Cephalometric tracing. 2. Treatment plan. 3. Insertion (optional) 4. Adjustments (Optional)	Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
4	1 theory+ 4 practical	vi. Dentition vii. Temporomandibular joint		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
5	1 theory+ 4 practical	d. Diagnostic aids i. Cephalometrics		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
6	1 theory+ 4 practical	ii. Orthopantomography iii. Other views		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
7	1 theory+ 4 practical	iv. Study models		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
8	1 theory+ 4 practical	v. Photography vi. 3D imaging		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
9	1 theory+ 4 practical	vii. Treatment planning		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
10	1 theory+ 4 practical	f- Treatment of Medically compromised patients		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
11	1 theory+ 4 practical	g- Orthodontic indices		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
12	1 theory+ 4 practical	**Space analysis, Bolton's ratio**		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
13	1 theory+ 4 practical	**Teeth extraction in orthodontics**		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
14	1 theory+ 4 practical	**Serial extraction**		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.

15	1 theory+ 4 practical	**Vertical and transverse problems:** a. Deep bite		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
16	1 theory+ 4 practical	b. Open bite		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
17	1 theory+ 4 practical	c. Crossbite and scissors bite		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
18	1 theory+ 4 practical	**Treatment of common local factors:** a. supernumerary and hypodontia b. Early loss of deciduous teeth c. Retained teeth, delayed eruption, impaction, ankylosis d. Abnormal eruptive behavior e. Large frenum		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
19	1 theory+ 4 practical	f. Bad oral habits		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
20	1 theory+ 4 practical	**Treatment of aberrant position of canines**		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
21	1 theory+ 4 practical	**Treatment of general factors**: a. Class I treatment (crowding, spacing, biprotrusion)		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
22	1 theory+ 4 practical	class I treatment (method of space creation)		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
23	1 theory+ 4 practical	b. Class II div. 1 treatment		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
24	1 theory+ 4 practical	c. Class II div. 2 treatment		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam

						and Final exam.
25	1 theory+ 4 practical	d. Class III treatment		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
26	1 theory+ 4 practical	**Treatment of adults** a- Periodontal problems		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
27	1 theory+ 4 practical	b- Orthognathic surgery		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
28	1 theory+ 4 practical	**Cleft lip and palate**		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
29	1 theory+ 4 practical	*Continue* **cleft lip and palate**		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
30	1 theory+ 4 practical	**Digital orthodontics** (digital approach in orthodontic diagnosis and treatment)		Orthodontic	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam, Mid. Term exam and Final exam.
Total	150 hrs.					

. Course Evaluation

First semester	15%
Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60%
Total	100

i. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary Orthodontics, William R. Proffit Sixth edition
Main references (sources)	Textbook of Orthodontics Singh 2007
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name:

Preventive Dentistry

2. Course Code:

531PD

3. Semester / Year:

Semester I and II /5th Year

4. Description Preparation Date:

2023−2024

5. Available Attendance Forms:

Recording the student's attendance in Theoretical and Practical lectures

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

30 hrs. for Theoretical
90 hrs. for Practical
120 hrs. (Total)/ 5 units (Total)

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

Name:
Email:

8. Course Objectives

Course Objectives After each of the following specific lecture topics students will be expected to be able to:	• Introducing the importance of preventive dentistry and its applications for individuals and society, • especially for widespread diseases Prevalence, such as tooth decay and gum disease, as well as in relation to nutrition and immune factors against oral And teeth disease

9. Teaching and Learning Strategies

Strategy	✔ Presenting lectures using PowerPoint ✔ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus self-learning. ✔ Innovative educational methods, such as scientific educational pictures ✔ A-Cognitive goals: • Formulating the information in a way that enables students to understand and increase knowledge regarding diagnosis and treatment Various diseases such as tooth decay • Providing instructions for dental care and health awareness to prevent tooth decay and diseases. • Of The gums • Providing special instructions and preventive programs for oral and dental health for the elderly and those with handicapped Especially for adults ✔ B-Skills objectives for the course: • Training the student to treat tooth decay and remove plaque from the teeth • Training students on how to use Fluoride to prevent caries • Giving instructions on taking care of dental and oral health

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1 theory	Preventive dentistry (introduction)	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
2+3	2 theory	Prevention of dental caries	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
4	1 theory	Fluoride in dentistry	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
5	1 theory	Systemic fluoridation(history)	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
6	1 theory	Water fluoridation	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
7+8	2 theory	Fluoride supplements	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
9	1 theory	Safety of water fluoridation	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
10	1 theory	Topical fluoride therapy(Mechanism)	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam

11	1 theory	Types of topical fluoride	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam,Mid.Term exam and Final exam
12	1 theory	Toxicity of topical fluoride	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
13	1 theory	Saliva	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
14	1 theory	Saliva and dental caries	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
15	1 theory	Microbiological aspect of dental caries	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
16	1 theory	Streptococci	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
17	1 theory	Lactobacilli	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam

18	1 theory	Immunization of dental caries	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
19	1 theory	Diet	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
20	1 theory	Diet and dental caries	Preventive Dentistr	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
21	1 theory	Dietary counseling	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
22	1 theory	Fissure Sealants(history)	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
23	1 theory	Uses of fissure Sealants	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
24	1 theory	New approach in restorative dentistry	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
25	1 theory	Use of laser in dentistry	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
26	1 theory	Oral hygiene measures	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam

27	1 theory	Prevention in aging dentition	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
28	1 theory	Dental health of handicap children	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
29	1 theory	Dental health education	Preventive Dentistry	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
30	1 theory	Programs of preventive dentistry	Preventive Dentistr	Power point, White board, Videos and smart screen	Attendance, Weekly Quizzes, Semester exam ,Mid.Term exam and Final exam
Total	30				

11. Course Evaluation

First semester	15%
Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60%
Total	100

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	● Primary Preventive Dentistry by Harris NO Garcia-GodoyF-NatheCN 8th Ed. (20014) ●Comprehensive preventive dentistry (2012) Edited by Hardy Limeback ● Dental caries, the disease and clinical management. Olefejerslkov and Edwina kidd., 2nd edition , black well, 2008
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Clinical requirement		
week	**Study unit title**	**Hours**
1	Diagnosis and treatment planning	**3**
2	Diagnosis and treatment planning	**3**
3	Preliminary medical and dental history, Clinical examination , Radio graphic examination	**3**
4	Preliminary medical and dental history, Clinical examination , Radio graphic examination	**3**
5	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants	**3**
6	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants	**3**
7	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion	**3**
8	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion	**3**
9	Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials	**3**
10	Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials	**3**
11	Trauma management in anterior teeth	**3**
12	Trauma management in anterior teeth	**3**
13	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material	**3**

14	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material	**3**
15	Pulp therapy for primary dentition	**3**
16	Pulp therapy for primary dentition	**3**
17	Management of simple cases of dental anomalies and other developmental defects	**3**
18	Management of simple cases of dental anomalies and other developmental defects	**3**
19	Maintenance of pulp vitality by use of regenerative materials and Root canal treatment for anterior non vital teeth	**3**
20	Maintenance of pulp vitality by use of regenerative materials and Root canal treatment for anterior non vital teeth	**3**
21	Extraction for non restorable primary and permanent teeth or over- retained primary dentition and permanent teeth for space creation for orthodontic treatment	**3**
22	Extraction for non restorable primary and permanent teeth or over- retained primary dentition and permanent teeth for space creation for orthodontic treatment	**3**
23	Management of molar incisor hypomineralization MIH	**3**
24	Behavior management for young patients	**3**
25	Behavior management for young patients	**3**
26	Infection control re-assurance and guidance of students	**3**
27	Infection control re-assurance and guidance of students	**3**
28	Tooth colored restoration technique	**3**
29	Tooth colored restoration technique	**3**

30	Radiographic prescription and interpretation of results	**3**
Total		**90**

Course Description Form

1. Course Name:
Restorative and operative dentistry
2. Course Code:
3. Semester / Year:
Semester I and II / 5th Year
4. Description Preparation Date:
21/02/2024
5. Available Attendance Forms:
Recording the student's attendance in Theoretical and Practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
Theory: Theory:1h/2wk Endodontics 1h/2wk Fixed Prosthodontic. Laboratory/ Clinic:6h/wk.
7. Course administrator's name (mention all, if more than one name)
Name: Dr Widad AL-Omairi Email: Dr.WidadOmairi2@outlook.com
8. Course Objectives

Course Objectives

Endodontics Lectures (Total 15 Hours): at the end of Endodontics course, students will be able to:

- Recognize and diagnose pulp and periapical diseases.
- Perform root canal treatment with precision and efficacy.
- Utilize pain control techniques effectively in Endodontics.
- Interpret and analyze Endodontic radiographs for treatment planning.
- Determine accurate working lengths for root canal procedures.
- Apply knowledge of microbiology in managing Endodontic infections.
- Demonstrate proficiency in using intracanal instruments.
- Achieve successful obturation of the root canal system.
- Implement emergency treatment protocols in Endodontics.
- Restore teeth after Endodontic therapy with appropriate techniques.
- Understand and manage Endodontic-Periodontal relationships.
- Identify causes of tooth discoloration and apply bleaching procedures.

By the end of the Fixed Prosthodontics Lectures (Total 15 Hours), students will be able to:

- Define and discuss terminology related to Fixed Partial Dentures.
- Design and construct various types of Fixed Bridges.
- Identify and explain the components of Fixed Bridge: Retainers.

- Describe and differentiate components of Fixed Bridge: Pontics, Connectors.
- Evaluate clinical considerations for successful Bridge construction.
- Analyze clinical situations affecting the design of Fixed Bridges.
- Understand and apply techniques for resin bonded bridges.
- Formulate diagnosis and treatment plans using intraoral, X-ray, and cast examinations.
- Demonstrate proficiency in gingival retraction, impression techniques, and disinfection.
- Fabricate provisional restorations with considerations for occlusion and aesthetics.
- Apply principles of occlusion, occlusal plane, and anterior guidance in Provisionals.
- Select appropriate shades and conduct try-ins for Fixed Prosthodontics.
- Perform final cementation of Fixed Partial Dentures using various techniques.
- Identify and manage failures in Fixed Prosthodontics.
- Discuss the use of porcelain and current ceramic materials in Fixed Prosthodontics.

Clinical Requirements

Minimum Requirement Hours: 6 hours/week

Restorations:

- Diagnose and treat pulp and periapical diseases through root canal therapy.
- Construct Amalgam Restorations: Class I, Class II, Compound, and Complex.
- Create Composite (Tooth-Colored) Restorations: Class I, Class II, Class III, Class IV, and Class V.
- Fabricate and place Fixed Prosthesis including Crowns and Bridges.
- Perform Endodontic treatments on Anterior Teeth and Premolars.
- Participate in Seminars to discuss and present case studies and research.

These refined learning objectives provide a clear roadmap for students to acquire the necessary knowledge and skills in Conservative Dentistry, focusing on Endodontics and Fixed Prosthodontics

Overall Outcome:

By the end of this course, students will have developed a strong foundation in conservative dentistry. They will be able to have a comprehensive understanding and practical application of Conservative Dentistry, covering both Endodontics and Fixed Prosthodontics. Students will develop skills in diagnosis, treatment planning, restoration, and management of various dental conditions.

9. Teaching and Learning Strategies

1. **Lectures**
2. **Case studies:** including real-life scenarios of clinical presentations cases a discussion groups.
3. **Hands on workshops:** clinical simulation context
4. **Operative Dentistry Workshops:** students to practice amalgam and composite restorations on models.
5. **Endodontic Workshops:** Hands-on sessions for access opening, root canal preparation, and obturation techniques.
6. **Material Handling:** Workshops on handling and manipulating various restorative materials.
7. **Supervised clinical practice:** students work on clinics under supervision.
8. **Demonstrations:**

- Live Demonstrations: Conduct live demonstrations of procedures by instructors.
- Video Demonstrations: Use pre-recorded or online videos to demonstrate step-by-step procedures.

9. **Problem-Based Learning (PBL):**

- Case Scenarios: Provide students with complex cases and guide them through the process of diagnosis and treatment planning.
- Group Discussions: Encourage students to work together to solve problems, fostering critical thinking and collaboration.

10. **Research Projects:**

- Literature Reviews: Assign topics for students to research current trends and advancements in conservative dentistry.
- Poster Presentations: Have students present their findings in poster sessions to the class.

10. Course Structure:

No	Endodontics course, Title of lectures	Hours
1	Endodontic diagnosis	1
2	Pain control in Endodontics	1
3	Endodontic radiography	1
4	Working length determination	1
5	Microbiology	
6	Microbiology	1
7	Intracanal instruments	1
8	Intracanal instruments	1
9	Obturation of root canal system	1

10	Obturation of root canal system	1
11	Endodontic emergency treatment	1
12	Restoration of Endodontically treated teeth	1
13	Endodontic-periodontal relation	1
14	Tooth discoloration and bleaching	1
15	Tooth discoloration and bleaching	1
Total		15

Fixed Prosthodontic Course:

No	Title of Lectures, Fixed prosthodontics:	Hours
1	Terminology, definition of fixed partial denture, Effect of Tooth Loss, Comparison with RPDs	**1**
2	Types of Fixed Bridge including Basic Bridge Design	**1**
3	Components of Fixed Bridge: Retainers	**1**
4	Components of Fixed Bridge: Pontic & 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. • Intra-oral Examination. • X-Rays Examination. • Diagnostic Cast Examination	**1**
9	Gingival retraction and impression(techniques)and impression disinfection	**1**
10	Provisional Restoration	**1**

	Occlusion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registration, and Articulation	
11	Provisional Restoration Occlusion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registration, and Articulation	**1**
12	Try-in and Shade Selection (Color 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**

Minimum clinical requirement	Hours
The students are required to complete the following restorations: • **Amalgam Restorations Class I, Class II, Compound and complex restorations.** • **Composite (tooth colored) Restorations Class I, Class II, Class III, Class IV, and Class V.** • **Fixed prosthesis including crown and bridge work.** • **Endodontic treatment for anterior teeth and premolars. Seminars**	
Total	**180 hour/year**

11.Course Evaluation

First semester	15%
Mid. Term Exam.	10%
Second semester	15%
Annual pursuit degree	40%
Final exam degree	60% (30% theoretical exam, 20% practical clinical exam)
Total	100

12.Learning and Teaching Resources

Required textbooks (curricular boo if any)	**Endodontics resources:** ➢ Cohen's Pathways of the Dental Pulp. 12th ed. Louis H. Berman and Kenneth

	M. Hargreaves. ➢ Textbook of Endodontics. 2nd ed. 2010. Nisha Garg, Amit Garg. Fixed prosthodontics (Crown & Bridge) text-books: ➢ Fundamentals of Fixed Prosthodontics, 2012, Quintessence Pub. SHILLINGBURG, H. T. & SATHER, D. A. ➢ Contemporary Fixed Prosthodontics, 2016 Elsevier. ROSENSTIEL, S. F., LAND, M. F. & FUJIMOTO, J.