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 Medicine

2024

Introduction:

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

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

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

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

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: **University of Anbar**

Faculty/Institute: **College of Medicine**

Scientific Department: **Medicine**

Academic or Professional Program Name: Medicine and General Surgery

Final Certificate Name: Bachelor's degree in Medicine and General Surgery

Academic System: Sequential integrated program

Description Preparation Date: **25/1/2024**

File Completion Date: **17/4/2024**

Signature:

Head of Department Name:

Date:

Signature:

Scientific Associate Name:

Date:

The file is checked by:

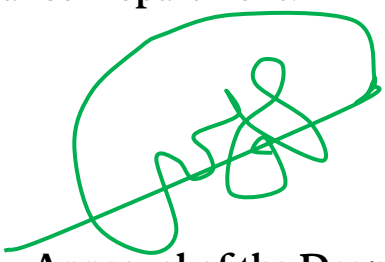
Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Assist Prof. Dr: Ausama Abbas Faisal

Date: **17/4/2024**

Signature:



Approval of the Dean

17/4/2024

1. Program Vision

Our college aims to be distinct scientific center and leading national college contributes in the development of health sciences by adapting its training program and scientific research quality to local and global needs. The college also aims to be accredited and internationally recognized in the field of medical education.

2. Program Mission

Our college seeks to enhance the affiliation and originality spirit in its teaching staff, employees, students and graduates. The college contributes to build sober educational and research system to provide the society by physicians with humanity, professional medical ethics, knowledge and high efficiency to produce distinguished sufficient medical care to serve the society and to enhance the scientific research.

3. Program Objectives

1- Graduating outstanding physicians capable of providing health care in hospitals and beyond, throughout the society with great interest in primary health care To graduate outstanding doctors capable of providing healthcare in hospitals and beyond, with a strong focus on primary healthcare

2- Developing curricula, teaching styles and exam methods, medical books authoring, and establishing rules for controlling and improving quality based on international quality standards and academic accreditation.

3- Promoting teaching excellence by creating scientific conductive environment that elevates the academic and scientific levels of teaching staff and providing advanced infrastructure.

4- Enhancing the capabilities and quality of scientific research among faculty members and providing the appropriate environment for this through support in publishing research in reputable international journals in order to elevate the college and university.

5- Providing specialized study facilities as a study and examination center for medical specialties.

6- Adopting continuous medical education strategies, and participating in qualification courses, education and continuous medical training.

7- Establishing an integrated health system through cooperation with the ministry of health and the world health organization, and working to develop human resources.

8- Building partnerships with universities that encourage the development of new technology and a distinguished health system for the development of medicine.

9- Conducting research programs and develop training programs directed to meet the needs and confront the health problems of society.

10- Promoting and reinforcing the quality assurance concepts among employees and students.

11- Providing the students with sober human interaction skills, adopting ethical principles for the health professions, and gaining the trust of society.

12- Encouraging extracurricular activities which include sports, artistic, social and literary activities.

4. **Program Accreditation**
College of medicine accreditation system

5. **Other external influences**
W.H.O

6. **Program Structure**				
Program Structure	**Number of Courses**	**Credit hours**	**Percentage**	**Reviews***
Institution Requirements	**39**			
College Requirements	**yes**			
Department Requirements	**yes**			
Summer Training	**yes**			
Other	**yes**			

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

7. **Program Description**				
Year/Level	**Course Code**	**Course Name**	**Credit Hours**	
			theoretical	**practical**
First level	MB 2102	Biology	60	**60**
	MB 2103	Biochemistry	**60**	**60**
	MP 2104	Medical physics	**60**	**60**
	MA 2101	Anatomy	**45**	**60**
	MF 2106	Foundation of Medicine	**60**	-
	MA1108	Arabic language	**30**	-
	MC 2205	Computer	**30**	-

	MH 1107	Human rights and freedoms	**30**	–
Second level	**MP 2205**	Physiology	**150**	**120**
	MB 2204	Biochemistry	**90**	**60**
	MH 2202	Histology	**45**	**90**
	MA 2201	Anatomy	**60**	**150**
	ME 2203	Embryology	**30**	–
Third level	**MP 2305**	Pharmacology	**90**	**60**
	MM 2306	Microbiology	**75**	**60**
	MP 2307	Parasitology	**60**	**60**
	MP 2304	Pathology	**60**	**45**
	MC 2302	Community Medicine	**30**	**30**
	MM 2303	Medicine	**45**	**60**
	MS 2301	Surgery	**30**	–
Fourth level	**MP 2403**	Pathology	**60**	**45**
	MC 2404	Community medicine	**90**	**120**
	ME 2407	Medical ethics	**30**	–
	MO 2406	Obstetrics	**75**	**90**
	MF 2402	Forensic medicine	**60**	**60**
	MM 2401	Medicine	**135**	**90**
	MS 2405	Surgery	**90**	**90**
	MP 2509	Psychiatrics	**45**	**30**
	MD 2504	Dermatology	**30**	**30**
	MO 2503	Otolaryngology	**30**	**30**

	MO 2502	Ophthalmology	**30**	**30**
	MM 2508	Medicine	**90**	**90**
	MS 2501	Surgery	**75**	**90**
	MR 2505	Radiology	**30**	**30**
	MG 2507	Gynecology	**60**	**30**
	MP 2506	Pediatric	**60**	**60**
	MM 2601	Medicine	-	**360**
	MS 2602	Surgery	-	**360**
	MO 2603	Gynecology	-	**360**
	MP 2604	Pediatrics	-	**360**

8. Expected learning outcomes of the program

Knowledge

A. Knowledge and Understanding

A1. Studying the anatomy of the human body and the tissues of the body's organs in the normal state, studying the fetal formation and the most important clinical cases associated with fetal malformations

A2. Medical terms and methods of their formulation and use academically and clinically

A3. Molecular, biochemical and cellular mechanisms that maintain basic homeostasis for the body

A4. General and practical foundations of medical physics.

A5. Health behavior and the social and psychological factors that affect and are affected by public health within the framework of the individual, family and society.

A6. The basic principles of genetics and hereditary diseases.

A7. Mechanisms, pathological causes, how to progress the disease and methods of prevention and treatment.

A8. Concepts of health and disease, determinants of health, causes of disease, associated risk factors and prevention.

A9. Principles of pharmacology, drug therapy, mechanisms of action, and indications for the different major drug groups.

A10. The main principles in the management of common and life-threatening diseases, including management, pharmacological and non-pharmacological treatment, follow-up, referral, pain relief and rehabilitation.

A11. Clinical signs of diseases, diagnosis, early detection and proper

prevention methods.
A12. The main principles of the study of infection and immunity.
A13. Basic principles of epidemiology, public health, health promotion and preventive medicine.
A14. Planning, management and economics of the local health system (Health Administration).
A15. Principles and applications of scientific research.
A16. Common health problems in Iraq.
A17. Foundations and principles of surgical diseases and methods of patient care before and after surgical operations and rehabilitation.

Skills

B1. Practical training within educational laboratories and the use of advanced equipment to ensure the progress of the educational process in line with the scientific orientation of the corresponding colleges and the professional and health needs.
B2. Clinical training in educational centers and hospitals, and specialized centers, and integrating the student into community activities such as field visits, with the aim of increasing societal awareness of the role of the doctor and raising the student's awareness of clinical problems in the community.
B 3. Thinking Skills
C1. How to work with a homogeneous team
C2. Taking care and feeling for the patient
C3. Equality between patients in terms of gender, race and belief
D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Medical profession laws
D2. How does a death certificate work
D3. International police report work
D4. Computer skills

Ethics

- How to work in a suitable team
- Feeling the patient soul and taking in account his circumstances
- Creating psychological conditions that alleviate the disease
- Non-discrimination between patients on the bases of race and gender

9. Teaching and Learning Strategies

- Small group teaching

- Big group teaching
- Clinical sessions
- Practical sessions
- Blended learning activities
- Skills lab sessions

10. Evaluation methods

Practical/Clinical(pass-fail) assessment with three trails

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	Surgery	Urology			2	
Assist professor	Surgery	Urology			2	
Assist professor	Surgery	General			2	
Lecturer	Surgery	General			2	
Assist professor	Surgery	ophthalmolog			2	
Assist professor	Surgery	Orthology			1	
Lecturer	Surgery	Orthology			1	
Assist professor	Surgery	Radiology			1	
Assist professor	Surgery	Cardiothoracic			2	
Professor	Surgery	E.N.T			1	

Assist professor	Surgery	E.N.T			2	
Lecturer	Surgery	Neurology			3	
Assist professor	Surgery	Pediatrics			1	
Professor	Surgery	Maxillofacial			1	
Assist professor	Surgery	Anesthesia			1	
Assist professor	Surgery	Plastic			1	
Assist professor	Chemistry	Biochemistry			2	
Lecturer	Chemistry	Biochemistry			2	
Co-lecturer	Chemistry	Biochemistry			1	
Professor	Medicine	Internal			3	
Professor	Medicine	Dermatology			2	
Assist professor	Medicine	Dermatology			1	
Assist professor	Medicine	Internal			3	
Assist professor	Gynecology	Obstetric			4	
Lecturer	Gynecology	Obstetric			4	
Professor	Pathology	Pathology			2	
Lecturer	Pathology	Histology			2	
Assist professor	Pediatrics	Pediatrics			3	
Lecturer	Pediatrics	Pediatrics			1	
Assist professor	Pharmacology	Pharmacology			1	
Lecturer	Pharmacology	Pharmacology			1	
Professor	Anatomy	Anatomy			1	
Lecturer	Anatomy	Anatomy			2	
Lecturer	Anatomy	Histology			1	

Co-lecturer	Anatomy	Anatomy			2	
Assist professor	Physics	Medical			2	
Lecturer	Physiology	Medical			1	
Professor	Microbiology	Microbiology			2	
Assist professor	Microbiology	Immunology			1	
Assist professor	Microbiology	Microbiology			3	
Assist professor	Medicine	Community			3	
Lecturer	Medicine	Community			2	
Co-lecturer	Medicine	Community			1	

Professional Development

Mentoring new faculty members

The college seeks to develop the skills of new faculty members by requiring them to participate in teaching methods courses. To obtain a teaching qualification certificate to ensure achieving a high level of quality in the educational process, as well as to encourage them to conducting research and to care with scientific promotions.

Professional development of faculty members

The college works to develop faculty members in the professional aspects by holding workshops and seminars and partnership with the professional organization to exchange ideas and information in the field of specialization and achieving integration between the professional and academic aspects.

12. Acceptance Criterion

- Adopting the admission requirements for students in accordance with the instructions of the Ministry of Higher Education and Scientific Research (central admission).
- Approval of the personal interview for the students by the Dean of the College and the assistants.

- To be fit for a medical examination
- Student average in high school
- The absorptive capacity of the college

13.	**The most important sources of information about the program**

- Curriculum
- The priorities of the office of the scientific assistant lady
- The priorities of the Quality Assurance Division in the college
- Recording unit

14.	Program Development Plan

Curriculum Skills Map																			
please tick in the relevant boxes where individual Programme Learning Outcomes are being assessed																			
				Programme Learning Outcomes															
Year / Level 1st level	CourseCode	CourseTitle	Core (C) Title or Option (O)	Knowledge and understanding				Subject-specificskills				Thinking Skills				General and TransferableSkills (or) Other skills relevant to employability and personal development			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**	**D1**	**D2**	**D3**	**D4**
	MB 2102	Biology	C	√	√	√	√	√	√			√				√			
	MB 2103	Biochemistry	C	√	√	√	√	√				√							
	MP 2104	Medical physics	C	√	√	√		√	√			√							
	MA 2101	Anatomy	C	√	√	√	√	√				√							
	MF 2106	Foundation of Medicine	C	√	√		√	√				√							
	MA1108	Arabic language	C	√	√														
	MC 2205	Computer	**C**	√	√	√		√	√	√	√	√				√	√		
	MH 1107	Human rights and freedoms	**C**	√	√			√	√	√	√					√			

Year / Level 2nd level	CourseCode	CourseTitle	Core (C) Title or Option(O)	Knowledge and understanding				Subject-specificskills				Thinking Skills				General and TransferableSkills (or) Other skills relevant to employability and personal development			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**	**D1**	**D2**	**D3**	**D4**
	MP 2205	Physiology	**C**	√				√	√			√				√			
	MB 2204	Biochemistry	**C**	√				√				√				√			
	MH 2202	Histology	**C**	√				√											
	MA 2201	Anatomy	**C**	√	√			√	√			√							
	ME 2203	Embryology	**C**	√				√	√			√							
Year / Level 3rd level	CourseCode	CourseTitle	Core (C) Title or Option(O)	Knowledge and understanding				Subject-specificskills				Thinking Skills				General and TransferableSkills (or) Other skills relevant to employability and personal development			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**	**D1**	**D2**	**D3**	**D4**
	MP 2305	Pharmacology	**C**	√				√	√										
	MM 2306	Microbiology	**C**	√				√	√										
	MP 2307	Parasitology	**C**	√	√			√	√			√							
	MP 2304	Pathology	**C**	√	√			√	√			√							

	MC 2302	Community Medicine	**C**	√	√	√		√	√			√	√	√					
	MM 2303	Medicine	**C**	√				√	√										
Year / Level 4th level	CourseCode	CourseTitl	Core (C) Title or Option (O)	Knowledge and understanding				Subject-specificskills				Thinking Skills				General and TransferableSkills (or) Other skills relevant to employability and personal development			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**	**D1**	**D2**	**D3**	**D4**
	MP 2403	Pathology	**C**	√				√	√			√							
	MC 2404	Community medicine	**C**	√				√				√				√			
	ME 2407	Medical ethics	**C**	√	√	√	√	√											
	MO 2406	Obstetrics	**C**	√				√				√	√						
	MF 2402	Forensic medicine	**C**	√				√	√	√	√	√				√			
	MM 2401	medicine	**C**	√				√	√			√	√						
	MS 2405	Surgery	**C**	√				√	√			√							

Year / Level 5th level	CourseCode	CourseTitl	Core (C) Title or Option (O)	Knowledge and understanding				Subject-specificskills				Thinking Skills				General and TransferableSkills (or) Other skills relevant to employability and personal development			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**	**D1**	**D2**	**D3**	**D4**
	MP 2509	Psychiatrics	**C**	√								√							
	MD 2504	Dermatology	**C**	√				√	√			√							
	MO 2503	Otolaryngology	**C**	√				√	√			√	√						
	MO 2502	Ophthalmology	**C**	√				√	√			√	√						
	MM 2508	medicine	**C**	√	√			√	√			√	√						
	MS 2501	Surgery	**C**	√				√	√	√		√	√						
	MR 2505	Radiology	**C**	√				√	√	√		√	√						
	MG 2507	Gynecology	**C**	√	√	√		√	√			√							
	MP 2506	Pediatric	**C**	√				√	√			√	√						

Year / Level 6th level	CourseCode	CourseTitl	Core (C) Title or Option (O)	Knowledge and understanding				Subject-specificskills				Thinking Skills				General and TransferableSkills (or) Other skills relevant to employability and personal development			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**	**D1**	**D2**	**D3**	**D4**

	MM 2601	medicine	**C**	√				√	√			√	√	√	√				
	MS 2602	Surgery	**C**	√				√	√			√							
	MO 2603	Obstetrics &Gynecology	**C**	√				√	√			√	√	√	√				
	MP 2604	Pediatrics	**C**	√				√	√			√	√	√	√				
	MM 2601	medicine	**C**	√				√	√			√	√	√	√				
	MS 2602	Surgery	**C**	√				√	√			√							
	MO 2603	Obstetrics &Gynecology	**C**	√				√	√			√	√	√	√				

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

Course Description Form

1. Course Name:
Medicinal chemistry
2. Course Code:
3. the chapter/the year:Annual
Annual
4. Date this description was prepared:
4/17/2024
5. Available attendance forms:
Compas
6. Number of study hours (total)/number of units (total):
120 hour annually.4 An hour a week
7. Name of the course administrator (if more than one name is mentioned)
Lec. Dr. Methal Riadh Dabaa

8. Course objectives	
Developing the student's complete perception of the subject the chemistry Medical Providing and preparing solid scientific cadres that simulate reality. Disseminating knowledge through cooperation with corresponding departments and holding seminars and conferences.	

9. Teaching and learning strategies	
Education strategy collaborative concept planning. Teaching strate brainstorming. Education strategy notes series	**The strateg**

10. Course structure					
Week	hours	Required learning outcomes	Unit/Module or Topic Title	Learning method	Evaluation method
1	2	general chemistry	Organic chemistry	lecture	Formative test
2	2	general chemistry	Organic chemistry	lecture	Formative test
3	2	general chemistry	Organic chemistry	lecture	Formative test
4	2	general chemistry	Organic chemistry	lecture	Formative test
5	2	general chemistry	Organic chemistry	lecture	Formative test
6	2	general chemistry	Radio isotops	lecture	Formative test
7	2	general chemistry	Acids & Bases	lecture	Formative test
8	2	general chemistry	pH	lecture	Formative test
9	2	general chemistry	Solution	lecture	Formative test
10	2	general chemistry	Buffer system	lecture	Formative test
11	2	general chemistry	Dialysis	lecture	Formative test
12	2	general chemistry	Chelations	lecture	Formative test
13	2	general chemistry	Ions in living systems	lecture	Formative test
14	2	general chemistry	Heterocyclics	lecture	Formative test
15	2	general chemistry	Carbohydrates	lecture	Formative test
16	2	general chemistry	Carbohydrates	lecture	Formative test
17	2	general chemistry	Lipids	lecture	Formative test
18	2	general chemistry	Lipids	lecture	Formative test
19	2	general chemistry	Amino Acids	lecture	Formative test

20	2	general chemistry	Amino Acids	lecture	Formative test

11. Course evaluation
distributionAs follows:15 Monthly and daily exam grades for the first semester.15 Monthly and daily exam grades for the second semester.70 Score for final exams

12. Learning and teaching resources	
Harpers Chemistry of life Medical interests	Required textbooks (methodology, if any)
	Main references (sources)
	Recommended supporting books and references (scientific journals, reports....)
	Electronic references, Internet sites

1. Course Name:
Biochemistry
2. Course Code:
3. the chapter/the year:Annual
Annual
4. Date this description was prepared:
4/17/2024
5. Available attendance forms:
Compas And online
6. Number of study hours (total)/number of units (total):
150 hour annually.5 hours a week
7. Name of the course administrator (if more than one name is mentioned)
Lec. Dr. Methal Riadh Dabaa

8. Course objectives	
Developing the student's complete perception of the subjectthechemistryMedical Providing and preparing solid scientific cadres that simulate reality. Disseminating knowledge through cooperation with	

corresponding departments and holding seminars and conferences.	

9. Teaching and learning strategies

Education strategy collaborative concept planning. Teaching strate brainstorming. Education strategy notes series	The strateg

10.Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	3	Clinical chemistry	Clinical enzymology	lecture	Formative test
2	3	Clinical chemistry	Clinical enzymology	lecture	Formative test
3	3	Clinical chemistry	Antioxidants	lecture	Formative test
4	3	Clinical chemistry	Antioxidants	lecture	Formative test
5	3	Clinical chemistry	Vitamins	lecture	Formative test
6	3	Clinical chemistry	Vitamins	lecture	Formative test
7	3	Clinical chemistry	Vitamins	lecture	Formative test
8	3	Clinical chemistry	Metabolism of trace elements	lecture	Formative test
9	3	Clinical chemistry	Metabolism of trace elements	lecture	Formative test
10	3	Clinical chemistry	bioenergy	lecture	Formative test
11	3	Clinical chemistry	Carbohydrates	lecture	Formative test
12	3	Clinical chemistry	Carbohydrates	lecture	Formative test
13	3	Clinical chemistry	Carbohydrates	lecture	Formative test
14	3	Clinical chemistry	Carbohydrates	lecture	Formative test
15	3	Clinical chemistry	Carbohydrates	lecture	Formative test
16	3	Clinical chemistry	lipids	lecture	Formative test
17	3	Clinical chemistry	lipids	lecture	Formative test
18	3	Clinical chemistry	lipids	lecture	Formative test
19	3	Clinical chemistry	Lipids	lecture	Formative test
20	3	Clinical chemistry	Amino acids	lecture	Formative test
21	3	Clinical chemistry	Amino acids	lecture	Formative test
22	3	Clinical chemistry	Amino acids	lecture	Formative test
23	3	Clinical chemistry	nucleic acids	lecture	Formative test
24	3	Clinical chemistry	nucleic acids	lecture	Formative test
25	3	Clinical chemistry	nucleic acids	lecture	Formative test
26	3	Clinical chemistry	Hormones	lecture	Formative test
27	3	Clinical chemistry	Hormones	lecture	Formative test
28	3	Clinical chemistry	Hormones	lecture	Formative test
29	3	Clinical chemistry	Digestion and absorption	lecture	Formative test
30	3	Clinical chemistry	Kidney and liver functions tests	lecture	Formative test

11. Course evaluation
distributionAs follows:15 Monthly and daily exam grades for the first semester.15 Monthly and daily exam grades for the second semester.70 Score for final exams

12. Learning and teaching resources	
Harpers Lanennger Lippincottes illustrated biochemistry	Required textbooks (methodology, if any)
	Main references (sources)
	Recommended supporting books and references (scientific journals, reports....)
	Electronic references, Internet sites

10. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessmen tMethod
1	2		Introduction of anatomy, Terminology of Anatomy, movement and Anatomical Plaines	personal attendance	Quizzes+ midterm +final examination
2	2		Skin, Fascia, and Muscles,	personal attendance	Quizzes+ midterm +final examination
3	2		Bones, Types of joints, nerve & blood vessels	personal attendance	Quizzes+ midterm +final examination
4	2		Osteology of Upper Limb	personal attendance	Quizzes+ midterm +final examination
5	2		The pectoral region & breast The brachial plexus.	personal attendance	Quizzes+ midterm +final examination
6	2		The Axilla. The back and the movement of the scapula.	personal attendance	Quizzes+ midterm +final examination
7	2		The shoulder region. Superficial vessels & Nerve of UL	personal attendance	Quizzes+ midterm +final examination
8	2		The Shoulder joints. The arm & cubital fossa	personal attendance	Quizzes+ midterm +final examination
9	2		The bones of forearm & hand. The forearm flexor group.	personal attendance	Quizzes+ midterm +final examination
10	2		The forearm Extensor group. The Vessels & Nerve	personal attendance	Quizzes+ midterm +final examination

11	2		The Hand	personal attendance	Quizzes+ midterm +final examination
12	2		The Elbow & Wrist Joints. Nerve Injuries Radiological anatomy of the UL	personal attendance	Quizzes+ midterm +final examination
13	2		**Time of examination**	personal attendance	Quizzes+ midterm +final examination
14	2		Bone of pelvis and thigh	personal attendance	Quizzes+ midterm +final examination
15	2		Gluteal region and The lumbosacral plexus, and The inguinal region	personal attendance	Quizzes+ midterm +final examination
16	2		Anterior, Quadriceps group, and Adductor group,	personal attendance	Quizzes+ midterm +final examination
17	2		The femoral triangle, adductor canal, and femoral vessels, and superficial veins.	personal attendance	Quizzes+ midterm +final examination
18	2		Post. aspect of the thigh The popliteal fossa	personal attendance	Quizzes+ midterm +final examination
19	2		The hip and knee joints	personal attendance	Quizzes+ midterm +final examination
20	2		Bones of leg and foot	personal attendance	Quizzes+ midterm +final examination
21	2		The front & lateral aspect of the leg. The back of the leg and ankle joint	personal attendance	Quizzes+ midterm +final examination
22	2		The Foot and clinical notes	personal attendance	Quizzes+ midterm +final examination
23	2		**Time of examination**	personal attendance	Quizzes+ midterm +final examination
24	2		Osteology of Thorax The Thoracic Wall, joints of the thorax, thoracic vertebra.	personal attendance	Quizzes+ midterm +final examination
25	2		**Intercostal Space and Diaphragm**	personal attendance	Quizzes+ midterm +final examination

26	2		**Thoracic cavity, Pleura, and lung, blood supply, Nerves of pleura, and lung and clinical note**	personal attendance	Quizzes+ midterm +final examination
27	2		**The mediastinum: divisions & contents, big vessels, and Azygos veins**	personal attendance	Quizzes+ midterm +final examination
28	2		The Pericardium and Nerves of Pericardium	personal attendance	Quizzes+ midterm +final examination
29	2		**Heart, blood supply and Venous Drainage of the heart and Conducting System, and Cardiac Plexus**	personal attendance	Quizzes+ midterm +final examination
30	2		**Clinical note of thorax, Lymph drainage, and Review**	personal attendance	Quizzes+ midterm +final examination

10.Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessmen tMethod
1	2		cervical vertebrae	personal attendance	Quizzes+ midterm +final examination
2	2		The Skull	personal attendance	Quizzes+ midterm +final examination
3	2		The Face	personal attendance	Quizzes+ midterm +final examination
4	2		The Parotid Region & The submandibular region	personal attendance	Quizzes+ midterm +final examination
5	2		The Neck. And Viscera of the Neck	personal attendance	Quizzes+ midterm +final examination
6	2		Larynx and pharynx	personal attendance	Quizzes+ midterm +final examination
7	2		Main Arteries and Nerves of the Neck	personal attendance	Quizzes+ midterm +final examination
8	2		Muscles of head	personal attendance	Quizzes+ midterm +final examination
9	2		Nasal cavity	personal attendance	Quizzes+ midterm +final examination

10	2		Oral cavity	personal attendance	Quizzes+ midterm +final examination
11	2		Sense organs	personal attendance	Quizzes+ midterm +final examination
12	2		CLINICAL NOTES	personal attendance	Quizzes+ midterm +final examination
13	2		**Time of examination**	personal attendance	Quizzes+ midterm +final examination
14	2		Gross Appearance of The Spinal Cord	personal attendance	Quizzes+ midterm +final examination
15	2		Tract of The spinal cord	personal attendance	Quizzes+ midterm +final examination
16	2		The Brain stem, The medulla oblongata	personal attendance	Quizzes+ midterm +final examination
17	2		The Pons, the Midbrain and the cerebellum	personal attendance	Quizzes+ midterm +final examination
18	2		The cerebrum and The Cranial nerves	personal attendance	Quizzes+ midterm +final examination
19	2		The Basal nuclei. and The Functional areas of the cerebral cortex.	personal attendance	Quizzes+ midterm +final examination
20	2		The Structure of the abdominal wall	personal attendance	Quizzes+ midterm +final examination
21	2		The Inguinal canal	personal attendance	Quizzes+ midterm +final examination
22	2		The Abdominal Cavity	personal attendance	Quizzes+ midterm +final examination
23	2		The intestine	personal attendance	Quizzes+ midterm +final examination
24	2		The Accessory Organs of the Gastrointestinal Tract	personal attendance	Quizzes+ midterm +final examination
25	2		The Pelvis and The Contents of the pelvic cavity	personal attendance	Quizzes+ midterm +final examination
26	2		The Arteries of the pelvis	personal attendance	Quizzes+ midterm +final examination
27	2		The Pelvic viscera of the female	personal attendance	Quizzes+ midterm +final examination
28	2		The Perineum	personal attendance	Quizzes+ midterm +final examination
29	2		General review	personal attendance	Quizzes+ midterm +final examination
30	2		examination	personal attendance	Quizzes+ midterm +final examination

10.Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1		Gametogenesis: Cell divisions leading to mature ova and sperms	Attendance	Quiz Semester exam final exam
2	1		2nd week of development, Ovulation, fertilization, and implantation. Ovarian and menstrual cycles.	Attendance	Quiz Semester exam final exam
3	1		3rd week of development, gastrulation, formation of trilaminar germ disc, Formation of notochord,	Attendance	Quiz Semester exam final exam
4	1		Embryonic period 3rd – 8th weeks , Organogenesis, neural tube and crest,.	Attendance	Quiz Semester exam final exam
5	1		Embryonic period 3rd – 8th weeks. Fate of mesodermal germ layer. Fate of endodermal germ layer,	Attendance	Quiz Semester exam final exam
6	1		Embryonic period 3rd – 8th weeks	Attendance	Quiz Semester exam final exam
7	1		**Fetal period. 8th week to birth**	Attendance	Quiz Semester exam final exam
8	1		**Fetal membrans, Development of placenta**	Attendance	Quiz Semester exam final exam
9	1		Teratogenic agents: Examples of toxic effects at sensitive or critical age.	Attendance	Quiz Semester exam final exam
10	1		Development of muscles, fate of somites.	Attendance	Quiz Semester exam final exam
11	1		Development of cartilage and bones.	Attendance	Quiz

			The limb buds.		Semester exam final exam
12	1		Kidneys: fate of pro-, meso-, and metanephros. Ascent of kidneys .duct system	Attendance	Quiz Semester exam final exam
13	1		Primitive testis, ovary: cell migration from wall of yolk sac Ureter, urinary bladder, and External genitalia of male and female	Attendance	Quiz Semester exam final exam
14	1		Revision	Attendance	Quiz Semester exam final exam
15	1		Examination	Attendance	Quiz Semester exam final exam
16	1		CVS: Formation of the heart tube, its foldings and divisions.	Attendance	Quiz Semester exam final exam
17	1		Cardic septa and chamber formation.	Attendance	Quiz Semester exam final exam
18	1		Big vessels.	Attendance	Quiz Semester exam final exam
19	1		Fetal circulation and changes after birth.	Attendance	Quiz Semester exam final exam
20	1		GIT: Elongation and rotation of primitive gut. Foregut, liver and pancreas.	Attendance	Quiz Semester exam final exam
21	1		Midgut: Parts and rotation to final position.	Attendance	Quiz Semester exam final exam
22	1		Hindgut: Cloaca and urorectal septum, the fate of the area.	Attendance	Quiz Semester exam final exam
23	1		Pharyngeal arches: The first arch, nose and upper lip.	Attendance	Quiz Semester exam final exam
24	1		Fate of other arches, the respiratory divertaculum, thyroid, parathyroid, and thymus.	Attendance	Quiz Semester exam final exam

25	1		CNS: changes in the neural tube, brain vesicles and flexures.	Attendance	Quiz Semester exam final exam
26	1		Sensory and motor nuclei, cranial and spinal nerves, meninges.	Attendance	Quiz Semester exam final exam
27	1		Skin, hair, mammary gland.	Attendance	Quiz Semester exam final exam
28	1		General review.	Attendance	Quiz Semester exam final exam
29	1		Revision	Attendance	Quiz Semester exam final exam
30	1		Examination	Attendance	Quiz Semester exam final exam

10.Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2		**Introduction**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
2	2		**Cellular organization**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
3	2		**Shapes of the cells**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
4	2		**Organelles 1**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
5	2		**Organelles 2**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students

					Asking some important questions to the students
6	2		**Chemical composition of the cells**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
7	2		**Homeostasis and reproduction**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
8	2		**The cell cycle**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
9	2		**mitosis**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
10	2		**meiosis**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
11	2		**Cell aging**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
12	2		**Apoptosis**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
13	2		**Bacteria**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
14	2		**Immunology and cancer biology**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
15	2		**General tissues**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important

					questions to the students
16	2		**Epithelial tissues Simple and stratified Epithelial tissues**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
17	2		**Glandular epithelia**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
18	2		**Connective tissue proper**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
19	2		**blood**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
20	2		**Bones and cartilages**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
21	2		**Muscular tissue**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
22	2		**Nervous tissue**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
23	2		**Molecular Biology**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
24	2		**DNA replication**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
25	2		**DNA repair system**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
26	2		**Mutations**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific

					reports by students Asking some important questions to the students
27	2		**Gene expression**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
28	2		**PCR ,** **Genetic engineering in medical application**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
29	2		**Gel electrophoresis**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students
30	2		**Gene cloning**	Electronic learning	Quiz Semester exam and final exam Writing specialized scientific reports by students Asking some important questions to the students

1. Course name	
pathology	
2. Course code	
MP2403	
3. Semester/ year	
Year	
4. Preparation date	
17/4/2024	
5. Available attendance form	
Physical	
6. Number of credit hours	
60 hrs	
7. Course administerator name	
Dr. nafaa sami	
8. Overall Aims of the Course	
	The course is designed to introduce the student to: 1- Pathologic terms. 2- Basic alterations in cells and tissues that eventually lead to disease(s.(3- The correlation between pathologic changes and the function of affected organs. 4- Follow the course of the disease and its complications.

	5- Understand the clinical presentation and the outcome of the disease. 6- Encourage the students for self-learning and how to work independently and effectively in small groups.

9. Learning strategy

At the end of the course students should be able to:

1. Recognize the basic concepts of pathology and pathogenesis and to list causes of disease.
2. Describe major pathological changes of gastrointestinal disease.
3. Define setiatosis, cholestasis and other pathological manifestation of liverdisease .
4. Describe mechanism of various hematological disorders and lymphoid pathology.
5. Define the major gynaecological pathology and their influence on femalegenital system organs and clinical manifestations including fertility.
6. At the end of the course the student should be able to describe major congenital abnormalities, to describe tumors of external genitalia and to be familiar with various types of testicular tumors and prostatic carcinoma.
7. Define the benign and malignant breast diseases .
8. At the end of the course the student should be able to describe CVA, demyelinating diseases and degenerative diseases and to be familiar with CNS tumors..
9. At the end of the course the student should be able to describe major congenital and acquired renal disorders.
10. At the end of the course the students should be able to describe bone infection, inflammation & tumors, and to describe arthritis and joint & soft tissue tumors.
11. At the end of the course the student should be able to define exfoliative and FNA cytology and to describe advantages, disadvantages, indications andcontraindications of FNA.
12. At the end of the course the student should be familiar with various hematologic lab. interpretation.

10. Syllabus:

Assessment meathods	Methods of learning	Topics	Objective	hours	week
1st &, 2nd semesters & final exams	Lecturs and lab	Cell injury	Define cellular injurie	2	1
	Lecturs and lab	Cell injury	Explain injured cells	2	2
	Lecturs and lab	Acute Inflammation	Define types of acute inflammation	2	3

	Lecturs and lab	Chronic Inflammation	Define types of chronic inflammation	2	4
	Lecturs and lab	Healing & repair	Define healing process	2	5
	Lecturs and lab	Healing & repair	Explain healing process and its obsticles	2	6
	Lecturs and lab	Hemodynamic	Define congestion and coagulation	2	7
	Lecturs and lab	Hemodynamic	Define edema and its types	2	8
	Lecturs and lab	Hemodynamic	Explain vascular obstruction types.	2	9
	Lecturs and lab	Immune pathology	Define immune system wings	2	10
	Lecturs and lab	Immune pathology	Explain types of immune reactions	2	11
	Lecturs and lab	Immune pathology	Define autoimmune diseases	2	12
	Lecturs and lab	Infectious	Define the main infectious process .	2	13
	Lecturs and lab	Environmental	Define environmental disease	2	14
	Lecturs and lab	Genetics	Define genetic disease	2	15
	Lecturs and lab	Genetics	Explain the main genetic disorders .	2	16
	Lecturs and lab	Neoplasia	Define tumor and its classification	2	17
	Lecturs and lab	Neoplasia	Explain carcinomgesis at molecular level	2	18
	Lecturs and lab	Neoplasia	Define influence of tumor disease	2	19
	Lecturs and lab	CVS	Define atherosclerosis	2	20
	Lecturs and lab	CVS	Pathology of ischemic heart disease	2	21
	Lecturs and lab	CVS	Define vascular and valve disease	2	22
	Lecturs and lab	Endocrine pathology	Define pituitary pathology	2	23
	Lecturs and lab	Endocrine pathology	Define thyroid and para-thyroid pathology	2	24
	Lecturs and lab	Endocrine pathology	Define adrenal disease	2	25
	Lecturs and lab	Respiratory system	Define upper respiratory tract disease	2	26
	Lecturs and lab	Respiratory system	Define lung tumor and disease	2	27
	Lecturs and lab	Respiratory system	Define upper respiratory tract disease	2	28
	Lecturs and lab	Skin-II	Define acute and chronic dermatosis	2	29
	Lecturs and lab	Skin-II	Define skin tumors	2	30

11- Course assessment	
15 marks for 1st semester , 15 marks for 2nd semester and 60 mark for final exam	
12- References	
Text books	
1-Robbin's basic pathology. **2-Robbin's and Cotran pathologic bases of diseases.** **3-Curran Atlas of histopathology.**	
	+ Electronic references.

1. Course name
Pathology
2. Course code
MP2403
3. Semester/ year
year
4. Preparation date
17/4/2024
5. Available attendance form
Physical
6. Number of credit hours
60 hrs
7. Course administerator name
Dr. nafaa sami
8. Overall Aims of the Course
1- Explain the main pronciple of pathology 2- Orientation of sequence of pathological events 3- Enable student for knowelege of the disease development princile 4- Enable students for pathological cases logic analysis 5- Explain and konweleg the medical intefence
9. Learning strategy

1- KOWELEG AND ORIENTAION 2-PATHOLOGICAL TERMS 3-PATHOLOGICAL CELLULAR CHANEGS	الاستراتيجية

4-DISEASE DEVELOPMENT AND HEALING 5-Causes of various disease 6-define prognosis and varous factors infiulence it .	

10. Course Structure

الأسبوع	الساعات	مخرجات التعلم المطلوبة	اسم الوحدة او الموضوع	طريقة التعلم	طريقة التقييم
1	2	Define cellular injurie	Cell injury	Lecturs and lab	1
2	2	Explain injured cells	Cell injury	Lecturs and lab	2
3	2	Define types of acute inflammation	Acute Inflammation	Lecturs and lab	3
4	2	Define types of chronic inflammation	Chronic Inflammation	Lecturs and lab	4
5	2	Define healing process	Healing & repair	Lecturs and lab	5
6	2	Explain healing process and its obsticles	Healing & repair	Lecturs and lab	6
7	2	Define congestion and coagulation	Hemodynamic	Lecturs and lab	7
8	2	Define edema and its types	Hemodynamic	Lecturs and lab	8
9	2	Explain vascular obstruction types.	Hemodynamic	Lecturs and lab	9
10	2	Define immune system wings	Immune pathology	Lecturs and lab	10
11	2	Explain types of immune reactions	Immune pathology	Lecturs and lab	11
12	2	Define autoimmune diseases	Immune pathology	Lecturs and lab	12
13	2	Define the main infectious process .	Infectious	Lecturs and lab	13
14	2	Define environmental disease	Environmental	Lecturs and lab	14
15	2	Define genetic disease	Genetics	Lecturs and lab	15
16	2	Explain the main genetic disorders .	Genetics	Lecturs and lab	16
17	2	Define tumor and its classification	Neoplasia	Lecturs and lab	17
18	2	Explain carcinomgesis at molecular level	Neoplasia	Lecturs and lab	18
19	2	Define influence of tumor disease	Neoplasia	Lecturs and lab	19
20	2	Define atherosclerosis	CVS	Lecturs and lab	20
21	2	Pathology of ischemic heart disease	CVS	Lecturs and lab	21
22	2	Define vascular and valve disease	CVS	Lecturs and lab	22
23	2	Define pituitary pathology	Endocrine pathology	Lecturs and lab	23

24	Lecturs and lab	Endocrine pathology	Define thyroid and para-thyroid pathology	2	24
25	Lecturs and lab	Endocrine pathology	Define adrenal disease	2	25
26	Lecturs and lab	Respiratory system	Define upper respiratory tract disease	2	26
27	Lecturs and lab	Respiratory system	Define lung tumor and disease	2	27
28	Lecturs and lab	Respiratory system	Define upper respiratory tract disease	2	28
29	Lecturs and lab	Skin-II	Define acute and chronic dermatosis	2	29
30	Lecturs and lab	Skin-II	Define skin tumors	2	30

11. Course assessment

15 marks for 1st semster , 15 marks for 2nd semister and 60 mark for final exam

12. Sources

	Text books
1-Robbin's basic pathology. **2-Robbin's and Cotran pathologic bases of diseases.** **3-Curran Atlas of histopathology.**	▪
	Electronic references

1. Course Name:

Microbiology

2. Course Code:

MMIC302

3. Semester / Year:

Year

4. Description Preparation Date:

10/9/2023

5. Available Attendance Forms:

Available Weekly

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

60 hours

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

Name: Prof. Dr. Ahmad Sh. Lafi
Email: shehab_6555@ymail.com

8. Course Objectives

Course Objectives	**1.Comprehend the common and the rare medically important microorganisms. (5%)** **2.Explaining the structure of the medically important microorganisms. (10%)** **3.Understanding the methods of infectivity, and contamination. (10%)** **4.Comprehending the pathogenesis of microorganisms. (25%)** **5.Comprehending the pathophysiology of its diseases. (25%)** **6.Comprehending the methods of diagnosis, and investigations. (15%)** **7.Explaining the drug of choice. (5%)** **8.Explaining the methods of immunization. (5%)**

9. Teaching and Learning Strategies

Strategy	✓ Class lectures, lecture notes and slides, and project are designed to achieve the course objectives. ✓ Students will be asked to create a small group of five students with a team lead and will be asked about the practical tasks in the laboratory if they fail to answer the penalty will be zero to the group and -1 to the leader, if they answe all questions the reword will be one point to the team, and +2 points to their leader. ✓ Students are responsible for all material covered in the class. ✓ Any questions out of the laboratory are answered by the coordinator at his off or by e-mail **Lecture notes will be available before each class. It resides on the mentioned above internet sites.**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1.	2	Introduction to microbiology and medicine. Bacterial cell structure.	Introduction to microbiology	**Lectures & Lab.**	**Short Exam**
2.	2	Host-parasite relationship. Bacterial growth, normal flora	Normal flora Host parasite relationship	=	=
3.	2	Metabolism Bacterial nutrition	Microbial metabolism		
4.	2	Medical genetics: gene transfer, replication, recombination, genetic engineering in medicine	Microbial genes		
5.	2	Staphylococci	Pyogenic bacteria Staphylococcus		

6.	2	Streptococci, Streptococcus pneumonia	Streptococcus		
7.	2	Bacillus: aerobic and anaerobic	Bacillus:Aerobic & anaerobic		
8.	2	*Neisseria spp* . &Moraxella	*Neisseria spp* . &Moraxella		
9.	2	Corynebacterium	Corynebacterium		
10.	2	Mycobacterium	Mycobacterium		
11.	2	Enteric bacteria	Enteric bacteria E. coli & klebsiella & proteus Acinetobacter, Salmonella, Shigella & *Pseudomonas* Yersinia, Francisella		
12.	2	Parvobacteria	Parvobacteria		
13.	2	Chlamydia &Mycoplasma	Chlamydia & Mycoplasma		
14.	2	*Vibreo* & Helicobacter and Campylobacter	*Vibreo* & Helicoba and Campylobacter		
15.	2	Spirochaetes,	Spirochaetes,		
16.	4	Mycology			
17.	4	Mycology			
18.	2	Introduction of viruses	Virology		
19.	2	Replication of viruses			
20.	2	Vaccination against viruses			
21.	2	Pathogenesis of the viruses			
22.	2	Antiviral therapy			

23.	2	Herpesviridae and Poxvaridae			
24.	2	Adenoviruses, Human Papilloma viruses			
25.	2	Parvovirus			
26.	2	Orthomyxoviridae include influenza viruses			
27.	2	Picoranvaridae			
28.	2	Rota virus, calici, astrovirus infection			
29.	2	Hepatitis viruses			
30.	2	Retrovaridae include HIV			
31.	1	Introduction to immunity.	Immunity		
32.	1	Innate immunity & Adaptive immunity.			
33.	1	Cells and organs of immune system Primary and secondary Immune responses			
34.	1	Antigens and antibodies, T dependent Ags, T independent Ags			
35.	1	Superantigens, adjuvants			
36.	1	Cell mediated Immunity Humoral immunity			
37.	1	Complement system- vaccination			
38.	1	Cytokines and Immune Response against bacterial infection			
39.	1	Major Histocompatibility complex and presentation			

40.	1	Hypersensitivity reactions			
41.	1	Tolerance and autoimmune diseases			

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	**1- Jawetz Medical Microbiology** **2-Practical-Medical microbiology**
Main references (sources)	Textbook Title Medical Microbiology Author(s) Stefan Riedel, Jeffery A. Hobden, Steve Miller, Stephen A. Mors Timothy A. Mietzner, Barbara Detrick, Thomas G. Mitchell, Judy A. Sakanari, Peter Hotez, Rojelio Mejia Publisher LANGE medical book Year 2019 Edition 28th
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	https://www.uoanbar.edu.iq/Medicin ollege/CMS.php?ID=74

1. Course Name:

Parasitology

2. Course Code:

MP2307

3. Semester / Year:

Year

4. Description Preparation Date:

10/9/2023

5. Available Attendance Forms:

Available

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

52

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

Name: Ass. Dr. Huda Rafea Sabbar
Email: huda73rafaa@gmail.com

8. Course Objectives

Course Objectives	1. Comprehend the common and the rare medically important parasites. (5%) 2. Explaining the morphology and life cycles of pathogenic parasites. (10%) 3. Understanding the methods of transmission and infective stages of medically important parasites. (10%) 4. Comprehending the pathogenesis of the parasites. (25%) 5. Comprehending the pathophysiology of its diseases. (25%) 6. Comprehending the methods of diagnosis, and investigations. (15%) 7. Explaining the epidemiology, prevention, and control of parasites. (5%) 8. Explaining the treatment of common parasitic infections. (5%)

9. Teaching and Learning Strategies

Strategy	-Class lectures, lecture notes and slides, and project are designed to achieve the course objectives. -Students will be asked to create a small group of five students with a team leader and will be asked about the practical tasks in the laboratory if they fail to answer the penalty will be zero to the group and -1 to the leader, if they answer all questions the reword will be one point to the team, and +2 points to their leader. -Students are responsible for all material covered in the class. -Any questions out of the laboratory are answered by the coordinator at his office or by e-mail -Lecture notes will be available before each class. It resides on mentioned above internet sites.

10. Course Structure (1st Course)

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Define terms of parasitology	Types of parasites and hosts, injury of hosts by parasites	Lectures &lab	Short exam
2	2	Define characters of amoeba and pathogenic species. E. histolytica	Amoeba: Ent. Histolytica	=	=

3	2	Identify none pathogenic amoeba	None pathogenic amoeba	=	=
4	2	Identify free living amoeba	Free living amoeba	=	=
5	2	Identify features and species of flagellates : Giardia and none pathogenic flagellates	Flagellates: Giardia lamblia and none pathogenic flagellates and Trichomonas spp.	=	=
6	2	Define lieshmania species and clinical forms	Heamoflagellates: Lieshmania spp.	=	=
7	2	Define trypanosma spp. , disease, life cycle and daignosis	Heamoflagellates: Trypanosoma spp.	=	=
8	2	Define sporozoa, types, disease, life cycle, transmission	Sporozoa: general features and Plasmodium spp.	=	=
9	2	Different species of plasmodium	Plasmodium spp.	=	=
10	2	Define toxoplasmosis and sarcocytosis.	Toxoplasmosis Sarcocystosis	=	=
11	2	Define intestinal sporozoa	Intestinal sporozoa	=	=
12	2	Define Babesia	Babesia spp.	=	=
10. Course Structure (2nd Course)					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
13	2	Define terms of Helminthology	Introduction to Helminthology	Lectures &lab	Short exam

14	2	Define characters of liver flukes life cycle and lab. Diagnosis.	Liver Flukes	=	=
15	2	Identify Large intestine Trematodes	Intestinal-Lung Trematodes	=	=
16	2	Identify blood trematodes, life cycle and pathogenesis	Blood trematodes	=	=
17	2	Identify features and species of Echinococcus	Hydatidosis: Echinococcosis	=	=
18	2	Define Taenia species and clinical forms	Cestodes: Taeniasis	=	=
19	2	Define Cestodes spp. , disease, life cycle and daignosis	Cestodes 2	=	=
20	2	Define Nematodes, disease, life cycle, transmission and diagnosis	Nematodes 1 (trichinosis-trichiniliasis	=	=
21	2	Different species of small intestine Nematodes	Nematodes 2 Ascariasis. enterobiasis	=	=
22	2	Define another spp. of Nematodes	Nematodes3: hook worms	=	=
23	2	Define intestinal Nematodes	Strongyloides stercoralis	=	=
24	2	Define Filariasis	Filarial worms	=	=
25	2	Identify and describe different types of medically important insects	Medical entomology		
26	2	=	Medical entomology,		
27	2	=	Medical entomology		

11. Course Evaluation	
86.2 %	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Textbook: Title: Paniker 's Textbook of Medical Parasitology Author(s): Ck Jayaram Paniker MD, Sougata Ghosh MD, DCH Publisher : Jaypee Brothers Medical Publishers (P) Ltd Year: 2013 Edition: 7th edition
Main references (sources)	Any System Analysis literature
Recommended books and references (scientific journals, reports…)	Same
Electronic References, Websites	All the lectures uploaded on the website College of Medicine

1. Course Name:
Pediatrics
2. Course Code:
3. Semester / Year:
Yearly
4. Description Preparation Date:
19 April 2024
5. Available Attendance Forms:
Attendance only
6. Number of Credit Hours (Total) / Number of Units (Total)
60 hours yearly (theory) 2 hours weekly(theory) + clinical course (1 month) as 3 hours per day totally 60 hours
7. Course administrator's name (mention all, if more than one name)
Name: Rana Fahmi shitran Email: rana.fahmi@uoanbar.edu.iq
8. Course Objectives

Course Objectives	**1-Graduation of qualified efficient medical students with efficient abilities for solving pediatrics problems and protecting children from development of these condition** **2- attainding a maximum level for diagnosis and treatment of pediatrics disease with least coast and right drugs .** **3 – graduation of an efficient postgraduate specialties in pediatrics**

9. Teaching and Learning Strategies

Strategy	Interactive lectures Interactive sessions Direct interview with the patients

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
	2hours **2hours**	**is knowledge in pediat that helps the student deal with comr pediatric diseases &le more about nor developmental milestones.**	nroduction to pediatrics velopment and growth Gastroenterology Gastroenterology Immunization Neonatal hyperbilirubinemia)S in newborn + Large for gestational age lure to thrive + Rickets onatal Seizures + Birth injury Breast feeding + Malnutrition Infectious system (Pertussis+ Mumps) Infectious system (Measles +Rubella) Respiratory system Respiratory system Infectious system shmania+TORCH+T.B) Cardiology	Theory lectures	**Daily an end of trimeste exam**

	2hours **2hours** **2hours** **2hours**		norrhagic disease of the newborn + Neonatal sepsis Cardiology hort stature & Puberty Nephrology Nephrology Infectious system)iphtheria+ Parvovirus B19) (Varicella + Roseola) Infectious system (Epstien-Barr virus + Scarlet fever) Genetics + poisoning Hematology Neurology Hematology Neurology Endocrinology Endocrinology		

11. Course Evaluation

1st trimester= 15 degree, 2nd trimester= 15 degrees, clinical course=20 degrees, final exam= 50 degrees

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Review of nelson
Main references (sources)	Nelson textbook of pediatrics
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Google classroom

1. Course Name:

Obstetrics

2. Course Code:

MO2406

3. Semester / Year:

Fourth year – Annually/ 2023–2024

4. Description Preparation Date:

19/4/2024

5. Available Attendance Forms:

Attendance and clinical practice

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

75/90/8

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

Name: Assistant Prof. Dr. Rafal Mustafa

Name: Assist. Prof. Dr. Rashad Zaki Name: Lect. Dr. Raghad Bardan Name: Lect. Dr. Dalia Malwoud Email:@uoanbar.edu.iq

8. Course Objectives

Course Objectiv	1- To understand commonly used terms in obstetrics.1 2- To have knowledge of normal pregnancy, labour & puerperium, their abnormalities and ho manage them. 3- To be familiar with the definitions & concepts of obstetric diseases & complications and their managements 4- To have knowledge of medical diseases complicating pregnancy and their managements. Practical skills: 1.To be able of taking comprehensive obstetric history 2.To be able to communicate with patients of different educational levels 3.To have practical skills of obstetric examination 4. To conduct appropriate investigations and proper interpretation of the results.

9. Teaching and Learning Strategies

Strategy	Knowledge and understanding: identifying the diseases that face the family and society in general and females in particular that affect fertility, pregnancy and childbirth, and identifying the techniques used in the treatment of gynecological diseases and infertility diseases b- Subject-specific skills Training students on clinical cases in specialized hospitals. c-Training on real clinical cases or testing equipment in the Clinical Skills Laboratory. Teaching and Learning Methods1- Lectures, 2- Data show, 3- The regular blackboard, 4- Direct explanation and communication with students. As well as clinical training, recording lectures in video form, conducting an electronic exam, and following up on student reports in the electronic class during the Corona pandemic

1. Course Name:

Gynecology

2. Course Code:

MG2507

3. Semester / Year:

2023-2024

4. Description Preparation Date:

19/4/2024
5. Available Attendance Forms:
Attendance and clinical practice
6. Number of Credit Hours (Total) / Number of Units (Total)
60/30/5
7. Course administrator's name (mention all, if more than one name)
Name: Assistant Prof. Dr. Suzan Zaidan Name: Assist. Prof. Dr. Dai AbdulAziz Name: Lect. Dr. Alaa Shalal Name: Lect. Dr. Noor Hazim Abdulakreem Email: den.noor.h@uoanbar.edu.iq
8. Course Objectives

Course Objectives	5- To understand gynaecological terms 6- to have a thorough knowledge of gynaecological 7- diseases and their management
9. Teaching and Learning Strategies	
Strategy	Knowledge and understanding: identifying the diseases that face the family and society in general and females in particular that affect fertility, pregnancy and childbirth, and identifying the techniques used in the treatment of gynaecological diseases and infertility diseases.

1. Course Name:
Obstetrics and Gynecology
2. Course Code:
MO2603
3. Semester / Year:
Six year – Annually/ 2023-2024
4. Description Preparation Date:
19/4/2024
5. Available Attendance Forms:
Clinical practice
6. Number of Credit Hours (Total) / Number of Units (Total)
300/10
7. Course administrator's name (mention all, if more than one name)
Name: Assistant Prof. Dr. Rafal Mustafa

Name: Assist. Prof. Dr. Rashad Zaki Name: Lect. Dr. Raghad Bardan Name: Lect. Dr. Dalia Malwoud Name: Lect. Dr. Noor Hazim Abdulkareem Name: Lect. Dr. Alaa Shalal Name: Assist. Pro. Dr. Suzan Zaidan Name: Assisst Prof. Dr. Dai AbdulAziz Email:@uoanbar.edu.iq

8. Course Objectives

Course Objectiv	8- To revise previous knowledge in obstetrics and gynecology with high level of understandin 9- To be familiar with common terms 10- To master comprehensive history taking 11- To undertake proper physical examination 12- To be familiar with instruments used for examination 13- To be able to reach differential diagnoses 14- To be able to ask for proper investigations 15- To interpret the information collected from history taking, examination& investigation to r a diagnosis 16- To be able to suggest possible lines of management 17- To be able to deal with obstetric and gynecological emergency in the future as a res doctor. 18- To enable the student to be an efficient doctor

9. Teaching and Learning Strategies

Strategy	A-Knowledge and understanding: understanding the sentences in obstetrics and gynecology and deal with them. B- Subject-specific skills Training students on clinical cases in specialized hospitals. C-Training on real clinical cases or testing equipment in the Clinical Skills Laboratory. Teaching and Learning Methods1- 1- Theoretical lectures 2- Papers and workshops 3- Studies and discussions of different cases and follow-up reports in the electronic class during the Corona pandemic 4- Practical lectures and laboratory activities 5- Clinical application

1. course name
Radiology
2. course code
MA 2101
3. semester / year
Annual
4. date
19/ 4/ 2024
5. Attendance form
Attendance only
6. number of hours
Hrs/year . 301hr weekly
7. Course administrator
Dr.Labeeb Qays Abdulrahman
8. Aims of course

..... • ..... • ..... •	1-Knowledge and understanding of the principles and basics of various radiological examinations, such as X-rays, computed tomography, magnetic resonance imaging, ultrasound, and nuclear medicine, as well as interventional techniques in various branches and specialties. 2-Acquiring the necessary skills and competence to interpret radiological examinations accurately and identify deformities and diseases using different imaging methods.

	3-Developing competence in choosing the most useful examination for diagnosis, using quality standards in imaging, and taking appropriate radiation safety measures. 4-Keeping pace with developments and technologies in the field of diagnostic and interventional radiology to enhance the accuracy of diagnosis and improve patient outcomes 5-Emphasizing the importance of continuing professional development and participation in research

9. استراتيجيات التعليم والتعلم

1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series	الاستراتيجية

10. Course structure

Assessment	Method	subjects		hour	Week
Examinations. monthly, daily, written and end-of-year	Lectures and Discussion	Introduction to imaging Radiation protection Basics of Cardiac Imaging Valvular heart disease Congenital and ischemic Heart Vascular disease Introduction to Chest imaging Radiology of chest infection Mediastinal masses an pleural disease Chest masses. Chest trauma Principles in MSK radiology Solitary bone lesions	Radiology	1hr 1hr 1hr 1hr 1hr 1hr 1hr 1hr 1hr 1hr 1hr 1hr 1hr	1 2 3 4 5 6 7 8 9 10 11 12 13

		Osteoporosis and hyperparathyroidism		1hr	14
		Joints and soft tissue disease		1hr	15
		Trauma in MSK			--
		Introduction to Neuroradiology		1hr	16
		RTA and ischemic disease		1hr	17
		CNS tumor imaging		1hr	18
		Head and neck radiology		1hr	19
		Introduction to Uroradiology		1hr	19
		Radiology to obstructive uropathy and calculi		1hr	20
		Urinary tract Infection and trauma		1hr	21
		Congenital renal disease		1hr	22
		Upper and lower urinary tract tumor imaging		1hr	23
		Introduction to GIT Rad.		1hr	24
		Radiology of esophagus		1hr	25
		Radiology of stomach		1hr	26
		Radiology of small bowel		1hr	27
		Radiology of large bowel		1hr	28
		Hepatobiliary radiology		1hr	29
		Interventional Radiology		1hr	30

11. تقييم المقرر

Monthly and daily exam grades for the 1st semester= 15

Monthly and daily exam grades for the 2nd semester= 15

Clinical Exam = 20

Final Examination= 50

12. Sources

DIAGNOSTIC IMAGING , Seventh edition, PETER ARMSTRONG,…	Books
- Grainger & Allison's DIAGNOSTIC RADIOLOGY A Textbook of Medical Imaging - Imaging for students-5th edition, David A. Lisle,..	Ref.
RSNA Journals: Radiology and Radiographics Journal of the American College of Radiology	
https://zlibrary-asia.se/	Electronic ref.

https://www.researchgate.net/	

1. Course Name:
Surgery
2. Course Code:
MS 2501
3. Semester /
Year: 5th year
4. Description Preparation Date
: 17/4/2024
5. Available Attendance Forms:
physical
6. Number of Credit Hours (Total) / Number of Units (Total)
45
7. Course administrator's name (mention all, if more than one name)
Name: Email:

8. Course Objectives	
Course Objectives	• **Teach students the principles of general surgery and enable them to apply them safely.** • **Inform the Students the art and science of surgery.** • **Giving students skills in the principles of surgery** • **Directing students to focus on the importance of patient care and support…..**

9. Teaching and Learning Strategies
Knowledge and Understanding A1. The student should know the concept and nature of the science of surgery A2. The student should understand the basics of surgery science A3. The student should understand what is meant by the science of surgery
B. Subject-specific skills B1. The ability to conduct a medical examination of patients. B2. To distinguish between the various diseases of the surgical specialties. B3. The ability to describe treatment methods.

B4. Conducting a research project to treat surgical diseases.

Teaching and Learning Methods

Lectures
interactive learning such as brainstorming
discussion
programmed education

Assessment methods

Formative assessment tests at the end of each lecture for immediate feedback to measu the student's progress in learning
The final summative assessment at the end of each term.

C. Thinking Skills
C1. Developing the student's ability to work on the performance of duties and deli them on time.
C2.Developing the student's ability to dialogue and discuss.
C3. Develop the student's ability to determine the change in the methods of diagnosis a treatment of diseases according to the latest medical developments.
C4. Develop the ability to explain medical conditions and how to deal with them.
C5. Development of the ability to analyze and diagnose diseases

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1		**introduction cardiac surgery**	Lecture	Formative test
2	1		**Heart surgical dis. congenital type**	Lecture	Formative test
3	1		**Heart surgical dis. congenital type**	Lecture	Formative test
4	1		**Heart surgical dis. acquired type**	Lecture	Formative test

5	1		**Heart surgical dis. acquired type**	Lecture	Formative test
6	1		**Thoracic surgery ,chest wall & pleura**	Lecture	Formative test
7	1		**Introduction thoracic surgery**	Lecture	Formative test
8	1		**bronchoscopy**	Lecture	Formative test
9	1		**pulmonary hydatid cyst**	Lecture	Formative test
10	1		**Benign lung diseases**	Lecture	Formative test
11	1		**Malignant lung diseases**	Lecture	Formative test
12	1		**Principles of plastic surgery**	Lecture	Formative test
13	1		**Graft and flap**	Lecture	Formative test
14	1		**Cleft lip and cleft palate**	Lecture	Formative test
15	1			Lecture	Formative test
16	1		**Maxillofacial trauma**	Lecture	Formative test
17	1		**Vascular malformation**	Lecture	Formative test
17	1		**Principle of hand surgery and hand infection**	Lecture	Formative test
18	1		**Hand trauma**	Lecture	Formative test
19	1		**Congenital hand disease**	Lecture	Formative test
20	1		**Anesthesia assessment premedication**	Lecture	Formative test
20	1		**Definition of anesthesia, Classification complication**	Lecture	Formative test
21	1		**General anesthesia**	Lecture	Formative test
21	1		**Central nerve blockade and regional anasthesia**	Lecture	Formative test
22	1		**Post-operative care**	Lecture	Formative test
23	1		**War surgery**	Lecture	Formative test
23	1		**Head injury and raised ICP, brain herniation**	Lecture	Formative test
24	1		**Brain edema Impaired consciosness**	Lecture	Formative test
24	1		**Craniosynostosis,**	Lecture	Formative test
25	1		**Intracranial hemorrhage,brain tumor**	Lecture	Formative test
25	1		**Spinal trauma and lumber disc**	Lecture	Formative test
26	1		**Lumber canal stenosis and neural tube defect**	Lecture	Formative test

26	1		**Neonatal intestinal obstruction**	Lecture	Formative test
27	1		**Surgical problems of pediatric respiratory distress**	Lecture	Formative test
27	1		**Emergency problem in pediatric surgery**	Lecture	Formative test
28	1		**Pediatric trauma**	Lecture	Formative test
28	1		**GIT anomalies**	Lecture	Formative test
29	1		**oncology**	Lecture	Formative test
29	1		**oncology**	Lecture	Formative test
30	1				

11. Course Evaluation

1st term 15
2nd term 15
Practical 20
Final 50
Total 100

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Bailey & Love's short practice of surgery
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Medscape http://www.medscape.com/ Webmd http://www.webmd.com/ Uptodate http://www.uptodate.com/home Medline Plus https://www.nlm.nih.gov/medlineplus/ NHS Choices http://www.nhs.uk/pages/home.aspx

1. Course Name:
surgery
2. Course Code:
MS 2602
3. Semester /
Year: 6th year
4. Description Preparation Date:
18/4/2024
5. Available Attendance Forms:
clinical training
6. Number of Credit Hours (Total) /
Number of Units (Total) 360
7. Course administrator's name (mention all, if more than one name)
Name: Email:
8. Course Objectives

Course Objectives	• **Teach students the principles of general surgery and urology a enable them to apply them safely.** • **Inform the Students the art and science of surgery.** • **Giving students skills in the principles of surgery** • **Directing students to focus on the importance of patient care a support…**
9. Teaching and Learning Strategies	
Strategy	A- Knowledge and Understanding A1. The student should know the concept and nature of the scienc of surgery A2. The student should understand the basics of surgery science A3. The student should understand what is meant by the science surgery B. Subject-specific skills B1. The ability to conduct a medical examination of patients. B2. To distinguish between the various diseases of the surgical specialties. B3. The ability to describe treatment methods. B4. Conducting a research project to treat surgical diseases. Teaching and Learning Methods

	- Lectures - interactive learning such as brainstorming - discussion - programmed education Assessment methods - Formative assessment tests at the end of each lecture for immediate feedback to measure the student's progress in learnin - The final summative assessment at the end of each term. C. Thinking Skills C1. Developing the student's ability to work on the performance o duties and deliver them on time. C2.Developing the student's ability to dialogue and discuss. C3. Develop the student's ability to determine the change in the methods of diagnosis and treatment of diseases according to the latest medical developments. C4. Develop the ability to explain medical conditions and how to deal with them. C5. Development of the ability to analyze and diagnose diseases Teaching and Learning Methods - Managing the lecture in an applied way is related to the reality of daily life to attract the student to the subject of the lesso without moving away from the core of the subject so that the subject is flexible and understandable and analytical. - Assigning the student some activities and collective duties. - Allocation of a grade ratio for daily duties and tests. Assessment methods - Active participation in the classroom is a guide to the student's commitment and responsibility. - Meet the deadline for submitting duties and research. - Quarterly and final tests reflect commitment, cognitive achievement and knowledge. D. General and Transferable Skills (other skills relevant to employability and personal development) D1. Developing the student's ability to deal with patients. D2 Develop the student's ability to deal with surgical conditions. D3 Developing the student's ability to deal with multiple means. D4 Developing the student's ability to dialogue and discuss.

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	30		**General surgery**	Clinical training	Formative test
2	30		**General surgery**	Clinical training	Formative test
3	30		**General surgery**	Clinical training	Formative test
4	30		**General surgery**	Clinical training	Formative test
5	30		**General surgery**	Clinical training	Formative test
6	30		**General surgery**	Clinical training	Formative test
7	30		**Urology**	Clinical training	Formative test
8	30		**Urology**	Clinical training	Formative test
9	30		**Fractures and orthopedics**	Clinical training	Formative test
10	30		**Cardiovascular surgery Neurosurgery Anesthesia**	Clinical training	Formative test
11	30		**Cardiovascular surgery Burn and reconstructive surgery**	Clinical training	Formative test
12	30		**Pediatric surgery Oncology**	Clinical training	Formative test

11. Course Evaluation

Practical examination 20
Final
Theory:40
Practical:40

12. Learning and Teaching Resources

Required textbooks (curricu books, if any)	Bailey & Love's short practice of
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	surgery Medscape http://www.medscape.com/ Webmd http://www.webmd.com/ Uptodate http://www.uptodate.com/home Medline Plus https://www.nlm.nih.gov/medlineplus/ NHS Choices http://www.nhs.uk/pages/home.aspx

1. Course Name:
surgery
2. Course Code:
MS 2301
3. Semester / Year
: 3rd year
4. Description Preparation Date:
1/4/2024
5. Available Attendance Forms:
physical
6. Number of Credit Hours (Total)
/ Number of Units (Total) 30
7. Course administrator's name (mention all, if more than one name)
Name: Email:
8. Course Objectives

Course	• **Teach students the principles of general surgery and urology and enable them to**

Objectives	**apply them safely.** • **Inform the Students the art and science of surgery.** • **Giving students skills in the principles of surgery** • **Directing students to focus on the importance of patient care and support…..**
9. Teaching and Learning Strategies	
Strategy	A- Knowledge and Understanding A1. The student should know the concept and nature of the science of surge A2. The student should understand the basics of surgery science A3. The student should understand what is meant by the science of surgery B. Subject-specific skills B1. The ability to conduct a medical examination of patients. B2. To distinguish between the various diseases of the surgical specialties. B3. The ability to describe treatment methods. B4. Conducting a research project to treat surgical diseases. Teaching and Learning Methods - Lectures - interactive learning such as brainstorming - discussion - programmed education Assessment methods -Formative assessment tests at the end of each lecture for immediate feedback to measure the student's progress in learning - The final summative assessment at the end of each term. C. Thinking Skills C1. Developing the student's ability to work on the performance of duties and deliver them on time. C2.Developing the student's ability to dialogue and discuss. C3. Develop the student's ability to determine the change in the methods of diagnosis and treatment of diseases according to the latest medical developments. C4. Develop the ability to explain medical conditions and how to deal w them. C5. Development of the ability to analyze and diagnose diseases Teaching and Learning Methods -Managing the lecture in an applied way is related to the reality of daily life to attract the student to the subject of the lesson without moving away fr the core of the subject so that the subject is flexible and understandable and analytical.

	- Assigning the student some activities and collective duties. - Allocation of a grade ratio for daily duties and tests. Assessment methods -Active participation in the classroom is a guide to the student's commitme and responsibility. - Meet the deadline for submitting duties and research. -Quarterly and final tests reflect commitment, cognitive achievement and knowledge. D. General and Transferable Skills (other skills relevant to employability ar personal development) D1. Developing the student's ability to deal with patients. D2 Develop the student's ability to deal with surgical conditions. D3 Developing the student's ability to deal with multiple means. D4 Developing the student's ability to dialogue and discuss.

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1		**Body response to injury**	Lecture	Formative test
2	1		**Body response to injury**	Lecture	Formative test
3	1		**Shock**	Lecture	Formative test
4	1		**Shock**	Lecture	Formative test
5	1		**Hemorrhage**	Lecture	Formative test
6	1		**blood transfusion**	Lecture	Formative test
7	1		**Wound healing and scars**	Lecture	Formative test
8	1		**Wound management**	Lecture	Formative test
9	1		**Fluids & electrolytes**	Lecture	Formative test

10	1		**Fluids & electrolytes**	Lecture	Formative test
11	1		**Acute arterial disease**	Lecture	Formative test
12	1		**Chronic arterial disease**	Lecture	Formative test
13	1		**Deep vein thrombosis**	Lecture	Formative test
14	1		**Varicose veins**	Lecture	Formative test
15	1		1st term exam	Lecture	Formative test
16	1		**Lymphatic disease**	Lecture	Formative test
17	1		**Gangrene and ulcer**	Lecture	Formative test
18	1		**Surgical infections**	Lecture	Formative test
19	1		**Surgical infections**	Lecture	Formative test
20	1		**Serialization and disinfection**	Lecture	Formative test
21	1		**Fistula and sinus**	Lecture	Formative test
22	1		**Tumors and tumor markers**	Lecture	Formative test
23	1		**Tumors and tumor markers**	Lecture	Formative test
24	1		**Skin tumors**	Lecture	Formative test
25	1		**Surgical drains and sutures**	Lecture	Formative test
26	1		**Burn**	Lecture	Formative test
27	1		**Burn**	Lecture	Formative test
28	1		**Total parenteral nutrition**	Lecture	Formative test

29	1		**Total parenteral nutrition**	Lecture	Formative test
30	1		**2nd term exam**	Lecture	Formative test

11. Course Evaluation

1st term 15
2nd term 15
Final 70
Total100

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Bailey & Love's short practice of surgery
Main references (sources)	Medscape http://www.medscape.com/ Webmd http://www.webmd.com/
Recommended books and references (scientific journals, reports…)	Uptodate http://www.uptodate.com/home Medline Plus https://www.nlm.nih.gov/medlineplus/ NHS Choices http://www.nhs.uk/pages/home.aspx
Electronic References, Websites	

10.Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2		Introduction nutrition	Lecture	Formative test
2	2		obesity	Lecture	Formative test
3	2		Underntrition	Lecture	Formative test
4	2		Nutrition of hospitalized patients	Lecture	Formative test
5	2		Vitamins	Lecture	Formative test
6	2		Organic and inorganic elements	Lecture	Formative test

7	2		Introduction to Fluid and electrolytes	Lecture	Formative test
8	2		Dysphasia and dyspepsia ,constipation and diarrhea	Lecture	Formative test
9	2		Hyponatremia and Hypernatremia	Lecture	Formative test
10	2		Hyperkalemia and hyperkalemia	Lecture	Formative test
11	2		Heat stroke	Lecture	Formative test
12	2		ECG	Lecture	Formative test
13	2		headache	Lecture	Formative test
14	2		Dyspnea ,chill ,	Lecture	Formative test
15			**1st term exam**		
16	1		Introduction to immunology	Lecture	Formative test
17	1		Lymphocyte T and B cell	Lecture	Formative test
18	1		Major Histocompatability gene	Lecture	Formative test
19	1		Humeral immunity, Complement, Cytokine	Lecture	Formative test
20	1		T-cell mediated Immunity	Lecture	Formative test
21	1		Type of hypersensitivity reaction	Lecture	Formative test
22	1		Giardiasis, malaria	Lecture	Formative test
23	1		Amoebiasis, Toxoplasmosis	Lecture	Formative test
24	1		Intestinal parasites	Lecture	Formative test
25	1		Ascariasis,Trichuris trichura	Lecture	Formative test
26	1		Ankylestomaisis, Trichanasis	Lecture	Formative test
27	1		Pin worm, Schistomiasis	Lecture	Formative test

28	1		Strongyloidosis, tineasis	Lecture	Formative test
29	1		Leishmniasis, Echomococcus granulosus	Lecture	Formative test
30			**2nd term exam**		

10.Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	5		Introduction to respiratory system, Chronic obstructive lung disease, Asthma.	Lecture	Formative test
2	5		Pneumonia, Tuberculosis, Respiratory failure.	Lecture	Formative test
3	5		Respiratory failure, Bronchogenic carcinoma Interstitial pulmonary disease.	Lecture	Formative test
4	5		Introduction to cardiovascular system, Ischemic heart disease	Lecture	Formative test
5	5		Congenital heart disease, Heart failure,	Lecture	Formative test

			Infective endocarditis. Rheumatic fever.		
6	5		Peripheral vascular disease.	Lecture	Formative test
7	5		Streptococcal And Staphylococcal Infections, Sepsis syndrome.	Lecture	Formative test
8	5		Typhoid ,brucellosis, HIV disease Viral diseases; Infectious	Lecture	Formative test
9	5		Infectious mononucleosis, CMV, Ricketsial diseases, Hemorrhagic fever.	Lecture	Formative test
10	5		Anthrax Fungal infection Pertusis, Diphtheria and tetanus.	Lecture	Formative test
11	5		Chemotherapeutic agent and Antibiotics Pyrexia of Undetermined origin (PUO)	Lecture	Formative test
12	5		Introduction to liver diseases	Lecture	Formative test

			Hepatitis: Viral hepatitis, drug induced hepatitis.		
13	5		Chronic liver diseases, Chronic Active hepatitis.	Lecture	Formative test
14	5		Liver cirrhosis and alcoholic liver disease Hepatoma	Lecture	Formative test
15			First term exam.		
16	2		Introduction to renal diseases	Lecture	Formative test
17	2		Investigation of renal disease, Glomerular manifestation of systemic diseases	Lecture	Formative test
18	2		Glomerular diseases Nephrotic and Nephritic syndrome,	Lecture	Formative test
19	4		Interstitial renal diseases, Acute and chronic interstitial diseases	Lecture	Formative test
20	4		Cystic kidney disease, Renal tubular acidosis	Lecture	Formative test
21	4		Urinary tract infection, Acute UTIs, Chronic	Lecture	Formative test

			UTIs and Reflux Nephropathy		
22	4		Acute renal failure ,Drugs and the kidney, Renaovascular disease.	Lecture	Formative test
23	4		Introduction to GIT diseases	Lecture	Formative test
24	4		esophageal disease	Lecture	Formative test
25	4		Peptic Ulcer disease Gastric Tumor	Lecture	Formative test
26	4		Small bowel diseases and	Lecture	Formative test
27	4		Malabsorption Pancreatic diseases.	Lecture	Formative test
28	4		Large bowel disease Inflammatory bowel diseases.	Lecture	Formative test
29			Tumor of the large bowel.	Lecture	Formative test
30	4		2nd term exam.	Lecture	Formative test

10.Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	30		**General medicine.**	Clinical training	Formative test

2	30		**General medicine.**	Clinical training	Formative test
3	30		**General medicine.**	Clinical training	Formative test
4	30		**Cardiology med.**	Clinical training	Formative test
5	30		**Respiratory med.**	Clinical training	Formative test
6	30		**G.I.T, medicine.**	Clinical training	Formative test
7	30		**Hematology med.**	Clinical training	Formative test
8	30		**Endocrine med.**	Clinical training	Formative test
9	30		**Rheumatology**	Clinical training	Formative test
10	30		**Neuromedicine.**	Clinical training	Formative test
11	30		**Nephrology med.**	Clinical training	Formative test
12	30		**Infectious disease.**	Clinical training	Formative test

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Davidson's principles and practice of medicine.
Special requirements (include for example workshops, periodicals, IT software, websites)	Medscape http://www.medscape.com/ Webmd http://www.webmd.com/ Uptodate http://www.uptodate.com/home Medline Plus https://www.nlm.nih.gov/medlineplus/ NHS Choices http://www.nhs.uk/pages/home.aspx

Community-based facilities (include for example, guest Lectures , internship , field studies)	

10.Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1		Structures and functions of the skin	Lecture	Formative test
2	1		Terminology	Lecture	Formative test
3	1		Parasitic skin infections	Lecture	Formative test
4	1		Acne	Lecture	Formative test
5	2		Papulosequamous diseases (Psoriasis)	Lecture	Formative test
6	1		Papulosequamous diseases (LP, PR)	Lecture	Formative test
7	1		Pigmentory skin disorders (hyperpigmentation)	Lecture	Formative test
8	1		Connective tissue diseases	Lecture	Formative test
9	1		Rosacea	Lecture	Formative test
10	1		Pigmentory skin disorders (hypopigmentation)	Lecture	Formative test
11	1		Urticaria	Lecture	Formative test
12	1		Angioedema	Lecture	Formative test
13	1		Physical factors and skin	Lecture	Formative test
14	1		Dermatitis (Eczema)- part 1	Lecture	Formative test

15			**1st term exam**		
16	1		Dermatitis (Eczema) part 2	Lecture	Formative test
17	1		Drug eruptions (pathogeneses and causes)	Lecture	Formative test
18	1		Drug eruptions (Examples)	Lecture	Formative test
19	1		Skin tumors(benign)	Lecture	Formative test
20	1		Skin tumors (malignant)	Lecture	Formative test
21	1		Skin manifestations of systemic diseases	Lecture	Formative test
22	1		Cutaneous laser surgery	Lecture	Formative test
23	1		Bacterial skin infections	Lecture	Formative test
24	1		Viral skin infections	Lecture	Formative test
25	1		Fungal skin infections	Lecture	Formative test
26	1		Sexual transmitted disease(infections)	Lecture	Formative test
27	1		Hair loss and Hirsutism	Lecture	Formative test
28	1		Bullous diseases (Immunological) and(Congenital)	Lecture	Formative test
29	1		Genodermatosis (inherited skin problems)	Lecture	Formative test
30			**2nd term exam**		

1. Course Name:
Medical ethics
2. Course Code:
MB2407
3. Semester / Year:
2023-2024
4. Description Preparation Date:
17-4-2024
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hours, 2 hours each week
7. Course administrator's name (mention all, if more than one name)
Name: Ahmed khalaf al-delaimy Email: ahmedks@uoanbar.edu,iq

8. Course Objectives

Course Objectives 1- Providing students with the skill of applying medical ethics 2 - Expanding the reading skill of the subject Behaviors and Ethics 3 - Clarifying the most important ide sources and discussions in the behavio subject	• ..... • ..... • .....

9. Teaching and Learning Strategies

Strategy	1- Explaining the scientific material by reading selected poems and giving the most important critical readings in this regard. 2- Write a review paper for each poet summarizing the most important ideas presented during the lectures 3- Linking well-known critical ideas with students' critical opinion

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)	1– Oxford handbook of medical ethics and law (Anna Smajdor, Jonathan Herring, Robert Wheeler, first edition 2022

	2- Biomedical Ethics book (Olinda Timms) 2016 3- Iraqi Medical Association – Medical Ethics
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

10.Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1-5	5	Principles of PHC	Primary health care (PHC)	Power point lectures, discussions	Quizzes , short assay assessments
6-12	7	Care of mothers before, during and after pregnancy	Maternal health care	Power point lectures, discussions	Quizzes , short assay assessments
13-16	4	WHO Programs for child health	Child Health care	Power point lectures, discussions	Quizzes , short assay assessments
17-18	3	Health indicators and mortality rates of mothers and children	MCH indicators	Power point lectures, discussions	Quizzes , short assay assessments
19-20	1	components and services provided for school children	School Health	Power point lectures, discussions	Quizzes , short assay assessments

10.Course Structure					
Week	Hours	ILOs	Unit/Module or	Teaching Method	Assessment Method

			Topic Title		
1	2	Principles of nutrition	Nutrition	Power point lectures, discussions	Quizzes , short assay assessments
2	4	MACRO AND MICRONU TRIENTS	FOOD GROUPS	Power point lectures, discussions	Quizzes , short assay assessments
1	2	Health and nutritional indicators	Nutritional Assessment	Power point lectures, discussions	Quizzes , short assay assessments
2	4	Nutrition of children, pregnant female, adult and eldery	Nutrition during life cycle	Power point lectures, discussions	Quizzes , short assay assessments
2	4	DM, HT, LIVER DISEASES , RENAL DISEASES	Nutrition and chronic diseases	Power point lectures, discussions	Quizzes , short assay assessments
2	2	Food relation to cancer	Nutrition and cancer	Power point lectures, discussions	Quizzes , short assay assessments
2	4	Phynel ketonurea, lactose intolerance, ----	Inborn error of Metabolic	Power point lectures,	Quizzes , short assay assessments
1	2	Marasmus and kwashiorkor	Malnutrition	Power point lectures	Quizzes , short assay assessments
1	2	BMI Keto diet Chemical diet, exercise	Obesity	Power point lectures	Quizzes , short assay assessments
1	2	IVF	IVF Parenteral feeding	Power point lectures	Quizzes , short assay assessments

1. Course Name:
medical physiology
2. Course Code:
MP 2205
3. Semester / Year:
First
4. Description Preparation Date:
4/3/2024
5. Available Attendance Forms:
17/4/2024
6. Number of Credit Hours (Total) / Number of Units (Total)
30 theoretical
7. Course administrator's name (mention all, if more than one name)
Name: Mohammed Ibrahim Younus Email: pe.alraw_53@uoanbar.edu.iq
8. Course Objectives
1. Embodying the vision, mission and goals of Anbar University, and applying the best educational practices with a focus on ensuring and enhancing quality and performance. **2. Preparing male and female doctors who are able to serve the community and prepare for future specializations.** **3. Spreading the culture of human diversity in society, transferring medical knowledge and skills, writing academic research, and creative scientific achievement through** **Activities that focus on the student and the teacher.** **4. The college seeks to conclude scientific and cultural cooperation agreements with the corresponding colleges and corresponding departments in the different colleges to achieve best practices.** **In the areas of generalization and generalization in the field of medicine.** **5. Focusing on the educational and moral aspect and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.** **6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the field of medical education.**

7. Focus on the educational and moral aspects of the demands and instill a spirit of dedication, tolerance and commitment.

9. Teaching and Learning Strategies

1- Educational strategy, collaborative concept planning.
2- Brainstorming education strategy.
3- Education Strategy Notes Series

10. Course Structure

Week	Hours	Required learning outcomes	Units or subject name	Learning method	Evaluation method
1	4	Introduction, cell physiology	Introduction, cell physiology	Attendance	Attendance, interaction, Quiz
2	4	Introduction, cell physiology	Introduction, cell physiology	Attendance	Attendance, interaction, Quiz
3	4	Introduction, cell physiology	Introduction, cell physiology	Attendance	Attendance, interaction, Quiz
4	4	Introduction, cell physiology	Introduction, cell physiology	Attendance	Attendance, interaction, Quiz
5	4	Introduction, cell physiology	Introduction, cell physiology	Attendance	Attendance, interaction, Quiz
6	4	Cell connections	Cell connections	Attendance	Attendance, interaction, Quiz
7	4	Cell connections	Cell connections	Attendance	Attendance, interaction, Quiz
8	4	Cell connections	Cell connections	Attendance	Attendance, interaction, Quiz
9	4	Cell connections	Cell connections	Attendance	Attendance, interaction, Quiz

10	4	Cell connections	Cell connections	Attendance	Attendance, interaction, Quiz
11	4	Body fluids	Body fluids	Attendance	Attendance, interaction, Quiz
12	4	Body fluids	Body fluids	Attendance	Attendance, interaction, Quiz
13	4	Body fluids	Body fluids	Attendance	Attendance, interaction, Quiz
14	4	Body fluids	Body fluids	Attendance	Attendance, interaction, Quiz
15	4	Body fluids	Body fluids	Attendance	Attendance, interaction, Quiz
	4			Attendance	Attendance, interaction, Quiz
16	4	hematology	hematology	Attendance	Attendance, interaction, Quiz
17	4	hematology	hematology	Attendance	Attendance, interaction, Quiz
18	4	hematology	hematology	Attendance	Attendance, interaction, Quiz
19	4	hematology	hematology	Attendance	Attendance, interaction, Quiz
20	4	hematology	hematology	Attendance	Attendance, interaction, Quiz
21	4	hematology	hematology	Attendance	Attendance, interaction, Quiz
22	4	hematology	hematology	Attendance	Attendance, interaction, Quiz
23	4	hematology	hematology	Attendance	Attendance, interaction, Quiz
24	4	hematology	hematology	Attendance	Attendance, interaction, Quiz
25	4	hematology	hematology	Attendance	Attendance, interaction, Quiz
26	4	Immunology	Immunology	Attendance	Attendance, interaction, Quiz
27	4	Immunology	Immunology	Attendance	Attendance, interaction, Quiz
28	4	Immunology	Immunology	Attendance	Attendance

	29	4	Immunology	Immunology	Attendance	Attendance
	30	4	Immunology	Immunology	Attendance	Attendance
						Final exam

11.Course Evaluation
Distribution is as follows: 15 marks for monthly and daily exams for the first semester. 15 marks for monthly and daily exams for the second semester. 70 marks for final exams
12.Learning and Teaching Resources
Guyton and Hall, textbook of medical physiology Ganong's review of medical physiology
Main references (sources)
Recommended books and references (scientific journals, reports...)
https://www.uoanbar.edu.iq

1. Course Name:
medical physiology
2. Course Code :
MP 2205
3. Semester / Year:
second
4. Description Preparation Date:
4/3/2024
5. Available Attendance Forms:
17/4/2024
6. Number of Credit Hours (Total) / Number of Units (Total)
120 theoretical 60 practical
7. Course administrator's name (mention all, if more than one name)
Name: Mohammed Ibrahim Younus Email: pe.alraw_53@uoanbar.edu.iq
8. Course Objectives
1. Embodying a vision, mission, and goals Anbar University, applying b practices Learning with a focus on quality assurance and performance and glory.

2. Preparing male and female doctors who are capable of Community service a preparation for preparation Future specializations.
3. Spreading the culture of human diversity in society and transferring medi knowledge and skills Writing academic research and achieving creative scier through activities that focus on the student and the teacher.

9. Teaching and Learning Strategies

Strategy

1- Learning strategy, planning the collaborative concept
2- Learning strategies: brainstorming
3- Learning strategies, series of notes

10. Course Structure

Week	Hours	Required learning outcomes	Units or subject name	Learning method	Evaluation method
1	4	Cardiovascular physiology	Cardiovascular physiology	Attendance	Attendance, interaction, Quiz
2	4	Cardiovascular physiology	Cardiovascular physiology	Attendance	Attendance, interaction, Quiz
3	4	Cardiovascular physiology	Cardiovascular physiology	Attendance	Attendance, interaction, Quiz
4	4	Cardiovascular physiology	Cardiovascular physiology	Attendance	Attendance, interaction, Quiz
5	4	Endocrine physiology	Endocrine physiology	Attendance	Attendance, interaction, Quiz
6	4	Endocrine physiology	Endocrine physiology	Attendance	Attendance, interaction, Quiz
7	4	Endocrine physiology	Endocrine physiology	Attendance	Attendance, interaction, Quiz
8	4	Endocrine physiology	Endocrine physiology	Attendance	Attendance, interaction, Quiz
9	4	Renal physiology	Renal physiology	Attendance	Attendance, interaction, Quiz
10	4	Renal physiology	Renal physiology	Attendance	Attendance, interaction, Quiz
11	4	Acid-Base balance	Acid-Base balance	Attendance	Attendance, interaction, Quiz
12	4	Acid-Base balance	Acid-Base balance	Attendance	Attendance, interaction, Quiz

13	4	Acid-Base balance	Acid-Base balance	Attendance	Attendance, interaction, Quiz
14	4	Hearing and equilibrium	Hearing and equilibrium	Attendance	Attendance, interaction, Quiz
15	4	Vision	Vision	Attendance	Attendance, interaction, Quiz
	4			Attendance	Attendance,
16	4	Revision	Revision	Attendance	Attendance, interaction, Quiz
17	4	Respiratory physiology	Respiratory physiology	Attendance	Attendance, interaction, Quiz
18	4	Respiratory physiology	Respiratory physiology	Attendance	Attendance, interaction, Quiz
19	4	Respiratory physiology	Respiratory physiology	Attendance	Attendance, interaction, Quiz
20	4	Endocrine physiology	Endocrine physiology	Attendance	Attendance, interaction, Quiz
21	4	GIT physiology	GIT physiology	Attendance	Attendance, interaction, Quiz
22	4	GIT physiology	GIT physiology	Attendance	Attendance, interaction, Quiz
23	4	GIT physiology	GIT physiology	Attendance	Attendance, interaction, Quiz
24	4	Autonomic nervous system	Autonomic nervous system	Attendance	Attendance, interaction, Quiz
25	4	Autonomic nervous system	Autonomic nervous system	Attendance	Attendance, interaction, Quiz
26	4	Autonomic nervous system	Autonomic nervous system	Attendance	Attendance, interaction, Quiz
27	4	Autonomic nervous system	Autonomic nervous system	Attendance	Attendance, interaction, Quiz
28	4	Central nervous system	Central nervous system	Attendance	Attendance
29	4	Central nervous system	Central nervous system	Attendance	Attendance

30	4	Central nervous system	Central nervous system	Attendance	Attendance
					Final exam

11.Course Evaluation
Distribution is as follows: 15 marks for monthly and daily exams for the first semester. 15 marks for monthly and daily exams for the second semester. 70 marks for final exams
12.Learning and Teaching Resources
Guyton and Hall, textbook of medical physiology Ganong's review of medical physiology
Main references (sources)
Recommended books and references (scientific journals, reports...)

1. Course Name:
computer
2. Course Code:
3. Semester / Year: year
4. Description Preparation Date:
14/2/2024
5. Available Attendance Forms:
Finding
6. Number of Credit Hours (Total) / Number of Units (Total)
90 hour yearly ,3 hour weekly
7. Course administrator's name (mention all, if more than one name)
Name: ASST. PROF. DR. Haitham Abbas Khalaf assistant lecturer .Mustafa Amer Obaid assistant lecturer .Mustafa Aziz Fayyad
8. Course Objectives
Course Objectives • The student gets to know the components of the computer and how they work and

develop
• To understand and learn to work on scientific computer application programs
• Working on all applied programs and ways to benefit from them
• Knowledge of communication processes between computer communication devices
• Keeping up with scientific developments for all scientific programs
• To understand and learn to work on scientific computer application programs
• Working on all applied programs and ways to benefit from them
• Knowledge of communication processes between computer communication devices

9. Teaching and Learning Strategies

Strategy	1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
eek s	3hours	• General introduction to computer knowledge for the student • Computer basics • Operating system and major software • Word 2010 program • Excel 2010 program • PowerPoint 2010 • Communication and Internet programs	computer	Explaining the scienti material b reading an selecting t topic, givi the most important readings, a learning about this matter. 2- Write a review pa for each to that summariz the most important ideas presented during the lectures 3- Linking ideas with practicalit and discussing with students'	Weekly, monthly, daily, written exar and the end-of-yea exam.

				critical opinions	

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	https://www.uoanbar.edu.iq/Medicine/College/CMS.php?ID=76

1. Course Name:
medical physics
2. Course Code:
MP2104
3. Semester / Year: YEAR
4. Description Preparation Date:
14/2/2024
5. Available Attendance Forms:
Finding
6. Number of Credit Hours (Total) / Number of Units (Total)
60 hour yearly ,2 hour weekly
7. Course administrator's name (mention all, if more than one name)
Name: Name: Dr. Mohamed Obeid Huseen Email: dr.mohamed.o.hussen@uoanbar.edu.iq
8. Course Objectives

Course Objectives	• understand principles in medical physics • understand the relationship between physics and medicine . • have acquired sufficient knowledge of the above to begin to understand applicati • processes and appropriate therapeutic , from through (what is medical physics?)

9. Teaching and Learning Strategies

Strategy	1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	1- Providing students with the skill of mathematical and medic analysis in medical physics by applying theories and knowledg 2- Informing students about the importance of scientific material and linking it to medicine, such pressure, force, energy, and radiation	Medical physics	Explaining the scientific material b reading and selecting the topic, giv the most important readings, and learning about this matter. 2- Write a review paper for each to that summarizes the most importar ideas presented during the lectures 3- Linking ideas with practicality a discussing with students' critical opinions	Weekly, monthly daily, written exams, and the end-of -year exam.

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)	Medical phyics
Main references (sources)	Medical phyics,cameron1994
Recommended books and references (scientific journals, reports…)	Medical phyics,cameron1994
Electronic References, Websites	Health physics