

**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

2026–2025

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.

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.

University Name: UNIVERSITY OF BASRAH

Faculty/Institute: AL-ZAHRAA COLLEGE OF MEDICINE

Scientific Department: General

Academic or Professional Program Name: National Standards for Accreditation
of medical colleges

Final Certificate Name: MBchB (Bachelor of Medicine and Bachelor of Surgery)

Academic System: INTEGRATION CURRICULUM

Description Preparation Date: 1 / 7 /2025

File Completion Date: 1 / 9 /2025

Signature:



Scientific Associate Name:

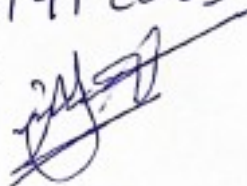
Ihsan Mardan Humod

Date: 1/9/2025

The file is checked by: **Prof. Dr, Abeer Laily Mohammed**
Department of Quality Assurance and University Performance

Date: 1/9/2025

Signature:



Approval of the Dean

Assist. prof.Dr. Jawad Ramadhan fadhli

1. Program Vision

To achieve excellence in medical education and to be an internationally accredited medical college. This will improve the health status of the population through graduating physicians who are scientists and scholars, showing professional attitude and are competent as medical practitioners, with emphasis on life-long learning, critical thinking, and humanitarian and ethical approach. This will be achieved through preparing a scientific environment that fosters integrated, student-centered medical education attracting national and international students, and the distinguished research programs that are compatible with the health needs of the community, and the distinguished care and services that are the ultimate goal of all of this is the benefit of the patient.

2. Program Mission

- 1. Graduating skilled medical students and preparing them to be professional doctors to achieve better health care.**
- 2. Achieve excellence in medical education in order that Al- Zahraa college of Medicine be an internationally accredited medical College.**

3. Program Objectives

- Graduating safe and competent doctors by providing results-based medical education that enables medical students to acquire knowledge, skills and attitudes related to the health care system and respond to the health needs of the community.**
- 2. To provide patient-centered care, with an emphasis on a compassionate approach through the application of effective communication skills, humanitarian and ethical principles in all aspects of medical practice.**
 - 3. The College will support distinct lines of research aimed at solving problems related to health, patient care, medical and biomedical sciences, and medical education.**

4. Preparing the necessary infrastructure for a scientific environment that supports learning based on long-term problem-solving, promotes innovative achievements and encourages exchange and partnership programs

5. Creating a postgraduate system similar to primary studies in terms of integration in blending biomedical learning with clinical learning and linking the results of studies and research to solutions of health problems in society.

4. Program Accreditation

Does the program have program accreditation? And from which agency?

National Council for Accreditation of Medical Colleges in Iraq, in process

5. Other external influences

Is there a sponsor for the program?

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	3	10	3.98%	
College Requirements	47	241	96%	
Department Requirements	47	241	96%	
Summer Training	/			
Other				

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

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours		
		Modules/Blocks	theoretical	Small group	practical
First level / 1 st S1	FOM	Foundation of medicine	60		
First level / 1 st S1	COM1	computers	15		30
First level / 1 st S1	Phys	Medical physics	45		30
First level / 1 st S1	HuR	Human Rights and Democracy	30		
First level / 2 nd S 2	MT	Medical terminology	30		
First level / 2 nd S 2	MGD	Molecule, Gene & Disease	30	30	
First level / 2 nd S 2	ToB	Tissue of the Body	30	30	
First level / 2 nd S 2	MB	Metabolism	30	30	
First level / 2 nd S 2	H&Dpop	Health and Disease in population	30	30	
First level / 2 nd S 2	CPS 1	Clinical problem solving 1	30	30	
First level / 2 nd S 2	Com 2	Computer 2	15		30
First level / 2 nd S 2	CSF	Clinical skills foundation			30
Second level/ 1 st S3	MSK	MusculoSkeletal system	30	30	
Second level/ 1 st S3	MaR	Membrane and Receptors	30	30	
Second level/ 1 st S3	CVS	Cardiovascular System	30	30	
Second level/ 1 st S3	MoD	Mechanism Of Disease	30	30	
Second level/ 1 st S3	CPS2	Clinical problem solving 2	15	15	
Second level/ 1 st S3	BaCr	Baath crimes	30		
Second level/ 2 nd S4	US	Urinary System	30	30	30
Second level/ 2 nd S4	GIT	Gastrointestinal System	30	30	30
Second level/ 2 nd S4	RS	Respiratory system	30	30	30
Second level/ 2 nd S4	HPsyc	Health Psychology and diversity	30	30	
Second level/ 2 nd S4	CSF 3	Clinical skills foundation			30
Third level/ 1 st S5	RS	Reproductive System	30	30	15
Third level/ 1 st S5	H&N	Head and Neck	30	30	15
Third level/ 1 st S5	In&Im	Infection & Immunity	30	30	–
Third level/ 1 st S5	H&Dsoc	Health and Disease in Society	30	30	–
Third level/ 1 st S5	SSC	Selective Modules	15	15	–
Third level/ 1 st S5	CSF	Clinical skills foundation	–	–	30

Third level/ 2 nd S6	Int	Integrative	30	30	–
Third level/ 2 nd S6	NS	Nervous system	30	30	30
Third level/ 2 nd S6	CPT	Clinical Pharmacology	30	30	–
Third level/ 2 nd S6	PLLTD	People Living with long term disease	–	30	60
Third level/ 2 nd S6	CSF	Clinical skills foundation	–	–	30
Third level/ 2 nd S6	FM	Forensic Medicine	15	–	–
Third level/ 2 nd S6	SSC	Selective Modules	15	15	–
Fourth level	MSK	MusculoSkeletal care	30	30	180
Fourth level	CRC	Cardio–respiratory care	30	30	180
Fourth level	GIT	Gastrointestinal System care	30	30	180
Fourth level	En&Re	Endocrine and Renal care	30	30	180
Fifth level	SPS	Special Sense	30	30	180
Fifth level	CHC	Child health	30	30	180
Fifth level	RP	Reproductive Health Care	30	30	180
Fifth level	POC	Peri–operative Care	30	30	180
Fifth level	ME	Medical ethics	30	–	–
Sixth level	Sur	Hematology & Cancer Care	30	30	150
Sixth level	Can	Acute care	30	30	150
Sixth level	Chr	Chronic care	30	30	150
Sixth level	Phsy	Mental health care & neurology	30	30	150

8. Expected learning outcomes of the program

Knowledge	
Learning Outcomes	<ul style="list-style-type: none"> • Graduating physicians who are scientists and researchers seeking the best medical solutions for their patients. • Graduating skilled medical students and preparing them to become professional physicians well–versed in the comprehensive knowledge of diseases and their causes. • Graduating physicians capable of applying medical scientific principles, methods, and knowledge to all medical sciences, such as microbiology, anatomy, physiology, biochemistry, and other sciences. • Focus on lifelong learning and critical thinking

Skills	
Learning Outcomes	<ul style="list-style-type: none"> • The ability to skillfully take a patient history and perform physical examinations. • Diagnostic skills through the ability to identify symptoms and clinical findings and relate them to the patient's medical history. • Providing immediate care in medical emergencies. • Skill in using modern medical equipment to diagnose medical conditions.
Ethics	
Learning Outcomes	<ul style="list-style-type: none"> • Demonstrate professional conduct and competence as practicing physicians, with a humane and ethical approach. • Physicians who are fully aware of the psychological and ethical ways of dealing with their patients in their professional practice, in accordance with societal values. • Physicians who strictly protect their patients' confidentiality. • Physicians who work as a team and do not shy away from cooperation because they have learned to work as a team.

9. Teaching and Learning Strategies

- Providing a comprehensive range of high–quality undergraduate programs based on cutting–edge research, supporting our graduates throughout their careers.
- Promoting a critical and scientific approach to learning, and through student–centered teaching, ensuring that all aspects of our students' learning needs—clinical, practical, and personal skills.
- Ensuring the efficiency of the college's academic infrastructure, including classrooms suitable for lecture halls, small–session theaters, academic libraries, laboratory requirements, and educational aids such as plastic–covered cadavers and other scientific models.
- Foster a commitment to professional learning to ensure continued professional development and medical education.

10. Evaluation methods

Student assessment will be consistent with the assessment requirements agreed upon by the College Council and supported by the Deans' Council of Colleges of Medicine that follow the integrated curriculum. This includes a 20% annual effort earned through a midterm exam. The final exam represents 80% of the grade. Both exams have two papers. The first consists of short answer questions, which, combined with the other modules, form complementary questions. This module's weight is worth 30 out of 120 marks. The second paper consists of best answer questions, which are worth 25 out of 100 marks. Both papers are distributed to cover all the subjects taught to students. The college also has an important assessment program that shows faculty members the progress made in students' performance called Personal and Professional Development Program

Academic Rank	Specialization		Number of the teaching staff	
	General	Special	Staff	Lecturer
Ass. Prof. Jawad Ramadhan Fadhl	M.B.Ch.B.	general surgeon	Staff	
Lecturer Wisam Hamza Abbas	M.B.Ch.B.	general surgeon	Staff	
Dr. Ali Mohammed Radhi	M.B.Ch.B.	Neurosurgery	Staff	
Prof. Haithem Hussein Ali	M.B.Ch.B.	Pediatric surgery	Staff	
Prof. Dr. Sadik Hassan Kadem	M.B.Ch.B.	Pediatric surgery	Staff	
	M.B.Ch.B.		Staff	
	M.B.Ch.B.		Staff	
prof. Dr. Hussein K. Abdul-Sada	Microbiology		Staff	

prof. Dr. abeer L. mohammed	Microbiology		Staff	
Asst.prof. Dr. wamedh H. abass	Microbiology		Staff	
prof. Dr. hazim T. thwiny	Microbiology		Staff	
Luct. Dr. Ban M. salh	Microbiology		Staff	
Luct. Dr.Shant S.	Microbiology		Staff	
Luct. Dr.Zaineb KH. khilil	Microbiology		Staff	
Assit. Luc. Mohammed Abdullah Katea	Microbiology		Staff	
Assit. Luc. Inas Riad Mohsen	Microbiology		Staff	
Assit. Luc. Amna Shaker Mahdi	Microbiology		Staff	
Assit. Luc. Amal Adel Qased	Microbiology		Staff	
Assit. Luc. Taif Qasim's Ibrahim	Microbiology		Staff	
Assistant prof Firas Rasheed Sael	Medicine	Cardiology	Staff	
Lecturer Mohammed Adil	Medicine	Medicine	Staff	
Lecturer Qutaiba Muslim	Medicine	hematology	Staff	
Lecturer Mustafa Emd	Medicine	rheumatology	Staff	
Lecturer Mazin Hazaa	Medicine	Cardiology	Staff	
Dr. Raya Muslim Mahdi Abdullah	Bachelor of Medicine and General Surgery	Gynecology and obstetrics specialty	Staff	
Dr. Marwa Sadiq Mustafa	Bachelor of Medicine and General Surgery	Gynecology and obstetrics specialty	Staff	

Amer Qasim M.	BSc. Physics science	PhD Medical Physics	Staff	
Ahmed Bedir	Physiology	Physiology	Staff	
Dr. Walled nori	comouter		Staff	
Lecturer Dr. Farqid majeed Mohsen	Microbiology	Medical Microbiology	Staff	
Doctor Ilham Mohammed Jawad	MBChB	Medical Microbiology/ Immunology	Staff	
Dr.Zainab Ahmed	Bachelor of General Medicine and Surgery	Clinical Biochemistry	Staff	
Dr.Amani Naama	Bachelor of General Medicine and Surgery	Clinical Biochemistry	Staff	
Dr.Maida Adnan	College of science	Analytical chemistry	Staff	
Dr.Zainab Muzahim	Bachelor of General Medicine and Surgery	Pathological chemistry	Staff	
Ass. Lecturer Eatidal Akram	College of science	Biochemistry	Staff	
Lecturer Dr. Farqid majeed Mohsen	Microbiology	Medical Microbiology	Staff	

Professional Development

Mentoring new faculty members

Holding seminars, workshops, and introductory courses on the Integrated Learning System curriculum.

- Holding seminars, workshops, and scientific courses in various fields of medicine.
- Holding weekly discussion sessions with Dean of Scientific Affairs, on the Integrated Learning System and the Group Learning Method.

The Team–Based Learning System (TBL)

Professional development of faculty members

- Holding seminars, workshops, and specialized scientific courses in various fields of medicine through continuing education.
- Holding weekly meetings with Mr. Moawi, Dean of Academic Affairs, regarding the integrated system and the learning method in the emerging groups.
- The team–based learning system (TBL).
- Researching new developments in the medical field through research using the internet and the library.

11. Acceptance Criterion

Admission is centrally managed by the Ministry of Higher Education and Scientific Research.

12. The most important sources of information about the program

Web of University of Basrah: <https://www.uobasrah.edu.iq/>

Web of Al–Zahraa College of medicine: <https://zahra.uobasrah.edu.iq/>

NCAMC : <https://asse-gate.gov.iq/councils-1>

13. Program Development Plan

- Each year, important scenarios are modified and added to enhance understanding of the material and better clarify the curriculum, in addition to using common clinical examples found in Iraqi society.
- Laboratories equipped with the latest and best equipment needed for students to understand practical aspects are established.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
First level / 1 st S1	FOM	Foundation of medicine	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	COM1	computers	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	Phys	Medical physics	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	HuR	Human Rights and Democracy	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	MT	Medical terminology	Basic	*	*	*	*	*	*	*	*	*	*	*	*
First level / 2 nd S 2	MGD	Molecule, Gene & Disease	Basic	*	*	*	*	*	*	*	*	*	*	*	*

	ToB	Tissue of the Body	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	MB	Metabolism	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	H&Dpop	Health and Disease in population	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	CPS 1	Clinical problem solving 1	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	Com 2	Computer 2	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	CSF	Clinical skills foundation	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Second level/ 1 st S3	MSK	MusculoSkeletal system	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	MaR	Membrane and Receptors	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	CVS	Cardiovascular System	Basic	*	*	*	*	*	*	*	*	*	*	*	*

	MoD	Mechanism Of Disease	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	CPS2	Clinical problem solving 2	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	BaCr	Baath crimes	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Second level/ 2 nd S4	US	Urinary System	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	GIT	Gastrointestinal System	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	RS	Respiratory system	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	HPsyc	Health Psychology and diversity	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	CSF 3	Clinical skills foundation	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 1 st S5	RS	Reproductive System	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 1 st S5	H&N	Head and Neck	Basic	*	*	*	*	*	*	*	*	*	*	*	*

Third level/ 1 st S5	In&Im	Infection & Immunity	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 1 st S5	H&Dso c	Health and Disease in Society	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 1 st S5	SSC	Selective Modules	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 1 st S5	CSF	Clinical skills foundation	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 2 nd S6	Int	Integrative	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 2 nd S6	NS	Nervous system	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 2 nd S6	CPT	Clinical Pharmacology	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 2 nd S6	PLLTD	People Living with long term disease	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 2 nd S6	CSF	Clinical skills foundation	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 2 nd S6	FM	Forensic Medicine	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 2 nd S6	SSC	Selective Modules	Basic	*	*	*	*	*	*	*	*	*	*	*	*

Third level/ 2 nd S6	Int	Integrative	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 2 nd S6	NS	Nervous system	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Third level/ 2 nd S6	CPT	Clinical Pharmacology	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Fourth level	MSK	MusculoSkeletal care	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Fourth level	CRC	Cardio-respiratory care	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Fourth level	GIT	Gastrointestinal System care	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Fourth level	En&Re	Endocrine and Renal care	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Fifth level	SPS	Special Sense	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Fifth level	CHC	Child health	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Fifth level	RP	Reproductive Health Care	Basic	*	*	*	*	*	*	*	*	*	*	*	*

Fifth level	POC	Peri-operative Care	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Fifth level	ME	Medical ethics	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Sixth level	Sur	Hematology & Cancer Care	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Sixth level	Can	Acute care	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Sixth level	Chr	Chronic care	Basic	*	*	*	*	*	*	*	*	*	*	*	*
Sixth level	Phsy	Mental health care & neurology	Basic	*	*	*	*	*	*	*	*	*	*	*	*

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

Course Description Form

First stage

1. Course Name:	
Medical Terminology	
2. Course Code:	
MT	
3. Semester / Year:	
Semester	
4. Description Preparation Date:	
1/ 9/2025	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours (2 credits)	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof. Dr. Abeer Laily Mohammed Email: abeer.mohammed@uobasrah.edu.iq	
8. Course Objectives	
Course Objectives	<ol style="list-style-type: none">1- identify and define prefixes, roots, and suffices in order to combine forms of terminology.2- develop basic vocabulary of medical terms and abbreviations.3- identify major body structure and functions that reinforces knowledge of basic anatomy and physiology.4- correctly construct singular and plural forms of terms5- construct medical terms, given a definition.6- provide the complete meaning of a medical abbreviation7- spell, pronounce, define, and identify words and word parts8- demonstrate an understanding of medical terminology by identifying terms in disease concepts and with medical procedures

9. Teaching and Learning Strategies

Strategy	<p>- Interactive Teaching Use presentations to explain roots, prefixes, and suffixes.</p> <p>- Contextual Learning: Introduce terms into medical reports, clinical case descriptions, laboratory results. Give students short texts to analyze the terms.</p> <p>Case-based learning: Present simple clinical cases and ask students to extract and explain the medical terms used.</p> <p>Multimedia learning: Videos, anatomical images, and electronic applications to train students in correct pronunciation and writing.</p> <p>- Self-directed Learning: Encouraging students to review electronic medical references. Small research assignments (such as writing a short report containing 20 new terms).</p> <p>- Formative Assessment:</p> <ul style="list-style-type: none"> - Short quizzes at the beginning or end of the lecture. - Practical assessment through writing reports or reading terms aloud.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2hr		Word Analysis & Combining Forms, Suffixes, and Prefixes	1. Identify the roots, combining vowels, and combining forms of medical terms. 2. Understand the importance of suffixes and prefixes in forming medical terms. 3. Link word elements together to construct medical terms. 4. Break down or deconstruct a medical term into its elements. 5. Connect the singular and plural forms of medical terms.	- Weekly test (based on previous lecture) - Achievement exam (after first 5 lectures) - Achievement exam (after last lecture) - Homework assignments

				<p>6. Differentiate between Latin and Greek terms</p> <p>7. pronunciation of medical terms employing system used in textbook</p>	
2	2hr		Introduction Body Systems	<p>1-Describe the medical terms of the different anatomical planes, directions, and body regions.</p> <p>2-Integrate individual body systems into the organization and function of the body as a whole.</p> <p>3-Comprehend, spell, and write medical terms pertaining to the body as a whole so that you communicate and document these terms accurately and precisely.</p> <p>4-Recognize and pronounce medical terms pertaining to the body as a whole so that you communicate verbally and with accuracy and precision.</p>	
3	2hr		Medical Terminology Digestive system	<p>1-Apply the language of gastroenterology to the structure and functions of the gastrointestinal tract, liver, gallbladder, and pancreas.</p> <p>2-Comprehend, analyze, spell, and write the medical terms of gastroenterology.</p> <p>3-Recognize and pronounce the medical terms of gastroenterology.</p> <p>4-Discuss the cause, diagnosis, and treatment of</p>	

				common disorders of the gastrointestinal tract, liver, gallbladder, and pancreas.	
4	2hr		Medical Terminology blood lymphatic system	<p>1-Apply the language of hematology to the anatomy and physiology of the blood.</p> <p>2-Comprehend, analyze, spell, and write the medical terms of hematology so that you can communicate and document accurately and precisely.</p> <p>3-Recognize and pronounce the medical terms of hematology so that you can communicate verbally with accuracy and precision.</p> <p>4- Use correct medical terminology to explain how common blood disorders affect health</p>	
5	2hr		Medical terminology Cardiovascular System	<p>1- Apply the language of cardiology to the structure and functions of the cardiovascular system.</p> <p>2-Comprehend, analyze, spell, and write the terms of cardiology so that you communicate and document accurately.</p> <p>3-Recognize and pronounce the medical terms of cardiology so that you communicate verbally and document with accuracy and precision.</p> <p>4-Specify the correct medical terminology for common disorders of the</p>	

				cardiovascular system	
6	2hr		Assessment		
7	2hr		Medical terminology Respiratory system	<p>1-Apply the language of pulmonology to the functions of the respiratory system.</p> <p>2-Comprehend, analyze, spell, and write the medical terms of pulmonology to communicate and document accurately and precisely.</p> <p>3-Recognize and pronounce the medical terms of pulmonology to communicate verbally with accuracy and precision.</p> <p>4-Explain the effects of common respiratory disorders on health.</p> <p>5-Translate medical terms of pulmonology into lay language in order to communicate with patients and their families.</p>	
8	2hr		Medical terminology System	<p>-Describe the structure and function of bones.</p> <p>-Analyze, spell, and write the medical terms of orthopedics so that you can document medical conditions accurately and precisely.</p> <p>-Distinguish and pronounce the medical terms of orthopedics so that you can communicate verbally with accuracy and precision.</p> <p>-Differentiate the causes, appearances, methods of diagnosis, and treatments of common disorders of the bones.</p>	

				<p>-Describe the functions and structure of skeletal muscle identify the structures and functions of the muscles and tendons of the shoulder girdle and upper limbs.</p> <p>-Identify the structures and functions of the muscles and tendons of the pelvic girdle and lower limbs.</p> <p>-Describe the major disorders of skeletal muscle.</p>	
9	2hr		Medical terminology Urinary system	<p>1-Apply the language of urology to the structures and functions of the urinary system.</p> <p>2-Comprehend, analyze, spell, and write the medical terms of urology.</p> <p>3-Recognize and pronounce the medical terms of urology.</p> <p>4-Explain the effects of common urinary disorders on health.</p>	
10	2hr		Medical terminology Reproductive system	<p>1-Apply the language of structure and functions of the male and female reproductive system.</p> <p>2-Identify the medical terminology of common disorders of the male and female reproductive system.</p> <p>3-Apply the languages of gynecology and obstetrics to the structures and functions of the female reproductive system.</p> <p>4-Comprehend, analyze, spell, and write the medical</p>	

				<p>terms of gynecology and obstetrics as they relate to the female reproductive system.</p> <p>5-Recognize and pronounce the medical terms of gynecology and obstetrics as they relate to the female reproductive system.</p> <p>6- Use correct medical terminology to describe common disorders of the female reproductive system.</p>	
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 (curriculum books, if any)		<p><i>Medical Terminology: A Short Course, 8th Edition</i> by Davi-Ellen Chabner, Imprint: Saunders Elsevier, 2018. The book includes online training quizzes available (EVOLVE.ELSEVIER.COM)</p>			
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic Websites					

Course Description Form

First stage

13.	Course Name: Foundation of Medicine
14.	Course Code: FOM
15.	Semester / Year: Semester-based
16.	Description Preparation Date: 1/6/2025
17.	Available Attendance Forms: In-person only
18.	Number of Credit Hours (Total) / Number of Units (Total) 4 units (each unit = 15 hours) 60 theoretical hours
19.	Course administrator's name (mention all, if more than one name) Course Coordinator: Dr. Zainab Khaleel Khaleel ✉ Email: zainab.khaleel@uobasrah.edu.iq Teaching Staff (8 members): Prof. Abeer Layla Mohammed – PhD Microbiology (Bacteriology) – General Veterinary Medicine & Surgery Assoc. Prof. Mazin Abdul Haza'a – Internal Medicine – General Medicine & Surgery Assist. Prof. Mayada Abdullah Adnan – Analytical Chemistry – Chemistry/Science Lecturer. Dr. Zainab Khaleel – Clinical Immunology & Microbiology – General Medicine & Surgery

20. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Develop fundamental knowledge in the basic medical sciences (anatomy, histology, biochemistry, physiology, immunology, microbiology). • Provide students with a knowledge base that supports later understanding of clinical sciences. • Enable students to practice initial medical skills such as first aid and emergency management. • Ensure commitment to biosafety and chemical safety procedures in laboratories. • Train students in systematic and ethical history-taking. • Strengthen professional attitudes and ethical values, with emphasis on responsibility and discipline. • Raise awareness about public health and preventive medicine.
21. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> • Lectures using visual aids (Data show). • Seminars (students assigned topics for presentation & discussion). • Homework assignments. • Self-directed learning.

22. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4 hr	Definition of medicine, anatomical position of the body, levels of organization (cell – tissue – organ – system)	Introduction Fundamentals Medicine	- Lectures - Reports - Self-study (weekly)	- Weekly test (based on previous lecture) - Achievement exam (after first 5 lectures) - Achievement exam (after last lecture) - Homework assignments
2	4 hr	Cell components and their functions, cell cycle and division, introduction to main tissues (epithelial, connective, muscular, nervous)	Cells and Tissues	Lectures	Exams & assignments as above
3	4 hr	Biomolecules (proteins, lipids – carbohydrates), enzymes and energy (ATP), principles of medical genetics, examples of inherited diseases	Biochemistry Medical Genetics	Lectures	Exams & assignments as above
4	4 hr	Membrane transport, fluid balance, membrane potential, introduction to circulation and blood	Physiology	Lectures	Exams & assignments as above
5	4 hr	Patient assessment and principles of cardiopulmonary resuscitation (CPR), trauma management	First Aid	Lectures & practice	Exams & assignments as above

		(burns, fractures), common emergencies (shock, choking, fainting)			
6	4 hr	Biosafety levels, personal protective equipment (PPE), handling of infectious samples and materials	Biosafety	Lectures & lab orientation	Exams & assignments as above
7	4 hr	Classification of hazardous chemicals, rules of storage and handling, emergency procedures upon exposure	Chemical Safety	Lectures & lab orientation	Exams & assignments as above
8	4 hr	Innate and adaptive immunity, antibodies, introduction to common bacteria and viruses	Immunology Medical Microbiology (Basics)	Lectures	Exams & assignments as above
9	4 hr	Steps of history-taking (personal, family, medical, drug history)	History Taking	Role-play, case-based learning	Exams & assignments as above
10	4 hr	Communication with patients, training on simple scenarios (role play)	Patient Communication Skills	Role-play	Final Exam

23. Course Evaluation

30% – Yearly continuous assessment:

Weekly short tests (based on previous lecture).

Mid-semester test (after first 5 lectures).

Another test after the last lecture.

Homework assignments.

70% – Final exam.

24. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Junquiera's Basic Histology: Text and Atlas – Anthony Mescher
Main references (sources) & Recommended books and references (scientific journals, reports...)	<p>Ross & Wilson Anatomy and Physiology in Health and Illness – Anne Waugh & Allison Grant</p> <p>Guyton and Hall Textbook of Medical Physiology – John E. Hall</p> <p>First Aid Manual – British Red Cross, St John Ambulance, St Andrew's First Aid</p> <p>Laboratory Biosafety Manual – WHO, 4th Edition</p>
Electronic References, Websites	<p>Supplementary materials: Scientific journals, reports.</p> <p>Online resources: Recommended medical/educational websites.</p>

Course Description Form

First Stage

Course Name:
Medical Physics
Course Code:
Med.phy.
Semester / Year:
1 st semester / 1 st year
Description Preparation Date:
1/3/2025
Available Attendance Forms:
In presence
Number of Credit Hours (Total) / Number of Units (Total)
Total number of Credit Hours = 75 hrs (45 Lectures+ 30 Labs)
Total number of Units = 4 Units
Course administrator's name (mention all, if more than one name)
Name: Dr. Firas Muhammed Abdul-Qader Email: firmas.abdulkader@uobasrah.edu.iq
Course Objectives
The focus of this course is the use of physics in understanding the function of the body or the physical background of physiology, in addition to the physical aspects of the medical instrumentations related to each session, in addition to solving problems to enhance understanding the principles.
Teaching and Learning Strategies
Teaching and Learning Strategies include giving theoretical lectures. The lecture is given in (3 hours per week) using on-screen presentation tools or a slide show program. During that there will be a quiz for the previous lecture. The laboratory material is given in (2 hours), where the principle of the experiment is explained in pre-lab and the method of using the device is explained in practical steps and the student is asked to follow. Then the application is done by the student under the supervision of those in charge of the laboratory. The laboratory ends with what is required in the experiment report. The student's knowledge of the theoretical principle of the experiment is tested through direct interactive questions. A Quiz for the previous laboratory is performed every week.

25. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5 hrs	Electromagnetic radiation Properties of light Applications of visible light in medicine Applications of ultraviolet light in medicine Applications of infrared light in medicine LASER in medicine LASER effects on tissue	<u>Lecture (3 hrs):</u> Light in medicine <u>Lab (2 hrs):</u> Pulse oximeter	The teaching method for this semester (S1) includes giving a theoretical lecture and doing quizzes in the previous lecture. Regarding the laboratory. A theoretical introduction to the principles of the laboratory is given, then the application is done by the supervisors, then the students apply and are asked to write a report on the laboratory topic and perform calculations. This is for every week for 15 weeks	1. Quizzes 2. Assignments 3. Laboratory reports 4. Mid-semester theoretical exam 5. Mid-semester practical exam 6. End-of-semester theoretical exam 7. End-of-semester practical exam
2	5 hrs	Components of vision sense Focusing elements of the eye Structure of the eye Eye photoreceptors Diopter strength of the Eye Types of defective eyesight due to focusing	<u>Lecture (3 hrs):</u> Physics of eye and vision <u>Lab (2 hrs):</u> Calculating No. of O ₂ molecules in 1ml of blood		
3	5 hrs	Nature and characteristics of sound Sonic spectrum Intensity that carried by sound wave Sound reflection and transmission on interfaces Effect the nature of sound on human hearing Audiometry Applications of audible sound in medicine	<u>Lecture (3 hrs):</u> Sound in medicine <u>Lab (2 hrs):</u> Visual acuity		

4	5 hrs	Ultrasound in Medicine US Generation (Piezoelectric principle) Spatial Resolution Attenuation Reflection and transmission A - Mode (1D) B-mode (2D image) M-mode (2D + motion) Doppler principle Physiological effects of ultrasound in therapy	<u>Lecture (3 hrs):</u> Ultrasound in medicine <u>Lab (2 hrs):</u> The image location from retina inside the eye		
5	5 hrs	Structure of ear The resonance and sensitivity of auditory canal Functions of the bones in the middle ear Hearing portion of the inner ear The cochlea chambers Organ of Corti Coding of sound waves as nerve impulses Hearing loss (deafness)	<u>Lecture (3 hrs):</u> Physics of ear and hearing <u>Lab (2 hrs):</u> Audiometry		
6	5 hrs	Blood components The heart structure pulmonary circulation (Heart-lung) Systemic circulation (Heart - body) Work done by the heart Pressure waveform Conservation of flow rate (Bernoulli equation) Effect of viscosity on the fluid flow (Poiseuille's equation) Laminar flow & Turbulent flow Effect of constriction on blood flow	<u>Lecture (3 hrs):</u> Physics of cardiovascular system <u>Lab (2 hrs):</u> Indirect measurement of blood pressure (P I)		

7	5 hrs	Structure of the Respiratory System Respiratory System Functions Mechanism of Breathing (Ventilation) Variation of pressures during breathing Lung compliance Surface tension Laplace's law Airways resistance	<u>Lecture (3 hrs):</u> Physics of respiratory system (P I) <u>Lab (2 hrs):</u> Indirect measurement of blood pressure (P II)		
8	5 hrs	Ventilation-Perfusion ratio Dalton's law Diffusions law Henry's law Mechanism of the gas exchange Volumes of air exchanged in pulmonary ventilation	<u>Lecture (3 hrs):</u> Physics of respiratory system (P II) <u>Lab (2 hrs):</u> Wrist blood pressure monitor		
9	5 hrs	Electromagnetic radiation X – rays production Properties of the target Bremsstrahlung (continuous) X-rays: Characteristic X-Rays Absorption of x-ray Photoelectric effect (P.E)	<u>Lecture (3 hrs):</u> Physics of X-rays (P I) <u>Lab (2 hrs):</u> Lung function test		
10	5 hrs	Compton effect (C.E) Pair Production (P.P) Making an X-ray image How to increase the sharpness of an X-ray image? Photographic film How to reduce blurring? Units of dose and exposure	<u>Lecture (3 hrs):</u> Physics of X-rays (P II) <u>Lab (2 hrs):</u> Peak expiratory flowrate		

11	5 hrs	Radioisotopes Types of emitted radiation Probability of decay Basic characteristics of radioactivity Uses of radionuclides Sources of radioactivity for nuclear medicine Geiger-Mueller (GM) counter Photomultiplier tube (PMT) Solid state detectors: The 24 hour uptake of Iodine by the thyroid Kidney function test Blood volume measurement	<u>Lecture (3 hrs):</u> Physics of nuclear medicine <u>Lab (2 hrs):</u> Body mass index		
12	5 hrs	Medical radiation exposures Somatic effects Genetic effects Radiation physical Effects Radiation detection instrumentation Radiation protection in diagnostic radiology Radiation protection in radiation therapy Radiation protection in nuclear medicine	<u>Lecture (3 hrs):</u> Radiation Protection <u>Lab (2 hrs):</u> Simulation of radiation attenuation		
13	5 hrs	Nervous System Contents of neuron Electrical Potentials of Nerves Stages of Action Potential Myelinated & unmyelinated nerves Electrical signals from muscles Electrical Signals From the Heart ECG Leads Electrical Signals from the Brain EEG frequency bands	<u>Lecture (3 hrs):</u> Electricity within the body <u>Lab (2 hrs):</u> Reaction time measurement		

14	5 hrs	Thermometry Glass fever thermometer Thermistor Thermocouple Thermography Heat therapy Short-wave diathermy Microwave diathermy Ultrasound waves Use of Cold in Medicine Blood Storage Cryosurgery	<u>Lecture (3 hrs):</u> Heat and cold in medicine <u>Lab (2 hrs):</u> Specific heat capacity		
15	5 hrs	Uses of energy in the body Energy changes in the body respiratory quotient The Basal Metabolic Rate BMR & weight loss The ergometer The heat loss mechanisms in the body Factors affecting heat loss	<u>Lecture (3 hrs):</u> Work and energy of the body <u>Lab (2 hrs):</u> Lab revision for final exam		

1. Course Evaluation

The following table shows how is the distributing the score out of 100 according to the student activities:

Element	Points
Exams	Mid-term (25) [15 theoretical + 10 Practical] Final term (70) [45 theoretical + 25 Practical]
Quizzes	1.5
Reports	1.5
Attendance	0
Assignments	2
Total	100

2. Learning and Teaching Resources

Required textbooks (curricular books, if any)	John R. Cameron: Medical Physics John Wiley & sons 1992 2nd ed.
Main references (sources)	Irving P. Herman :Physics of the Human Body, Springer 2008
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Classroom

4. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements /Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Dr. Firas M. Abdul-Qader	BSc. Physics science	PhD Medical Physics			✓	
Amer Qasim M.	BSc. Physics science	PhD Medical Physics			✓	

1. Expected learning outcomes of the program
Knowledge
<ol style="list-style-type: none"> 1- Understand the physical properties and related laws for various electromagnetic radiations involved in the function of the body 2- Identifying the physical phenomena concerned with the function of different body systems and senses 3- Knowing the physical bases of medical instrumentation related to the course subjects 4- Introductory knowledge to medical radiology 5- Gaining skills of using and measuring with medical devices in experiment designed to match topics of sessions
Skills
<ol style="list-style-type: none"> 1- Acquisition of knowledge of medical physics instrumentations 2- Acquisition of skills to measure some physiological parameters that lead to diagnostic information 3- Acquisition of skills to deal with physical equations underlying these measurements 4- Acquisition of understand the physical bases of physiology of body systems involved in the program
Ethics
<ol style="list-style-type: none"> 1. Enhancing students' ability to think and analyze logically to understand the medical phenomena in view of physical laws 2. Encouraging critical reading of relevant research 3. Instilling the values of scientific integrity to use the conceptual physics in understanding physiological issues. 4. Enhancing the student's self-confidence through the accurate medical conclusion of practical side of measuring with medical instrumentations

Professional Development
Mentoring new faculty members
<p>Giving adequate academic undergraduate-education in practicing medical physics as a part of the college goal in graduating criteria.</p> <p>Develop physician skills to provide services to patients in radiotherapy, nuclear medicine, and diagnostic and interventional radiology.</p>
Professional development of faculty members
<p>Training physicians to work in areas where ionizing or non-ionizing radiation or physics principles are used for diagnosis and treatment of patients.</p> <p>To graduate qualified professionals that can provide optimal and appropriate patient care through optimization between hazard and diagnostic value.</p>

Course Description Form

First stage

26.	Course Name:		
		Computer Science	
27.	Course Code:		
		com	
28.	Semester / Year:		
		Semester	
29.	Description Preparation Date:		
		11/ 05/ 2025	
30.	Available Attendance Forms:	Presence only	
31.	Number of Credit Hours (Total) / Number of Units (Total): 70 hours - semester 28 theoretical 42 practical		
32.	Course administrator's name (mention all, if more than one name)		
	Name: Waleed Noori Hussein Email: waleed.hussein@uobasrah.edu.iq Name: Hussein Hammed		
33.	Course Objectives		
	Course Objectives	<ul style="list-style-type: none"> • Understand basic concepts related to computer hardware and software • Understand the input and output devices of computers and how they work • Determine the various settings and options of the operating system • Understanding the Windows 10 operating system • Understanding of the Microsoft Office package 	
34.	Teaching and Learning Strategies		
	Strategy	1- Educational strategy, collaborative concept planning 2- Brainstorming education strategy. 3- Education Strategy Notes Series	

35. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical hours + 3 practical hours	-Use the computer efficiently to accomplish various tasks. -Use operating systems and computer networks effectively. Use common software applications such as word processors and spreadsheets. Critically evaluate digital information and verify its validity.	Computer Science	1. Explaining the scientific material through presentations 2- Practical application on computers	Weekly exams and tests Assignments, written assignments, and the end-of-semester exam.
2					
3	2 theoretical hours + 3 practical hours				
4	2 theoretical hours + 3 practical hours				
5	2 theoretical hours + 3 practical hours				
6	2 theoretical hours + 3 practical hours				
7	2 theoretical hours + 3 practical hours				
8	2 theoretical hours + 3 practical hours				
9	2 theoretical hours + 3 practical hours				
10	2 theoretical hours + 3 practical hours				
11	2 theoretical hours + 3 practical hours				
12	2 theoretical hours + 3 practical hours				
13	2 theoretical hours + 3 practical hours				
14	2 theoretical hours + 3 practical hours				
15	2 theoretical hours + 3 practical hours				
	2 theoretical hours + 3 practical hours				
	2 theoretical hours + 3 practical hours				

	2 theoretical hours + 3 practical hours				
	2 theoretical hours + 3 practical hours				
	2 theoretical hours + 3 practical hours				

36. Course Evaluation

The distribution is as follows: 30 marks for pursuit, 25 marks for the final practical exam, and 45 marks for the final theoretical exam.

37. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	<ul style="list-style-type: none"> • Computer Science made simple, V.AntonSpraul. • Microsoft Office 2019 All In One for Dummies By Peter Weverka <p>*More textboxes can be given by the lecturer.</p>
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	<p>http://www.techmixer.com/first-look-office-2019-e-book-download/</p> <p>http://free-7.blogspot.com/2010/02/office-2019-tutorial-ebook-download-pdf.html</p>

Course Description Form

First stage

1. Course Name:	
Human rights and democracy	
2. Course Code:	
3. Semester / Year:	
First stage / first semester S1	
4. Description Preparation Date:	
12/3/2025	
5. Available Attendance Forms:	
attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hrs. / 2 units	
7. Course administrator's name (mention all, if more than one name)	
Name: assist. lecturer Marwa Mohsen Talib Email: marwa.mohsin@uobasrah.edu.iq	
8. Course Objectives	
Course Objectives	<p>This course aims to: provide the student with the necessary knowledge of the principles of human rights and democracy</p> <p>By receiving a series of theoretical concepts, which are: –</p> <p>Rooting the concept of human rights and its development across the ages and civilizations. – Identifying the treaties, agreements and declarations that established the recognition of human rights.</p> <p>– Explaining the generations of human rights and their forms.</p> <p>– Introducing the most important constitutional, judicial and political guarantees of human rights.</p> <p>– Establishing the concept of democracy and its development throughout history. Explaining the characteristics, features and types of democracy.</p>
9. Teaching and Learning Strategies	
Strategy	<p>Theoretical subject for two hours per week, its vocabulary distributed over thirty weeks, interspersed with monthly exams.</p> <p>Preparing reports and exams at the end of the year</p>

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2hr.	Receiving students and introducing them to the subject's vocabulary, objectives and procedures	Receiving students and introducing them to subject's vocabulary, objectives and procedure		
2	2hr.	Knowledge Human rights, what human rights are, the concept of right and terminology Characteristics and characteristics human rights, sources of human rights	Human rights, what human rights are, the concept of right and terminology Characteristics and characteristics human rights, sources of human rights	Learning method Attendance and detailed explanation to student	Semester exams and reports
3	2hr.	Knowledge Human rights included in the Declaration, the International Covenant on Civil and Political Rights Human rights law, characteristics of law, international humanitarian law	Human rights included in the Declaration, International Covenant on Civil and Political Rights Human rights law, characteristics of the law, international humanitarian law		
4	2hr.	Knowledge Human rights in the contemporary stage International human rights conventions	Human rights in the contemporary stage International human rights conventions		
5	2hr.	Knowledge Human rights categories, non-governmental organizations defending human rights Human rights in Islamic law	Human rights categories, non-governmental organizations defending human rights Human rights in Islamic law		

6	2hr.	Knowledge Human rights in the Universal Declarations of Human Rights	Human rights in the Universal Declarations of Human Rights Human rights in the Constitution of the Republic of Iraq for the year 2005		
7	2hr.	Knowledge Types of public rights and freedoms, traditional public rights and freedoms Intellectual rights and freedoms	Types of public rights and freedoms, traditional public rights and freedoms Intellectual rights and freedoms		
8	2hr.	Knowledge Economic freedoms and social freedoms Human rights, what human rights are, the concept of right and terminology	Economic freedoms and social freedoms Human rights, what human rights are, the concept of right and terminology		
9	2hr.	Knowledge Characteristics and characteristics of human rights, sources of human rights	Characteristics and characteristics of human rights, sources of human rights Human rights included in the Declaration, International Covenant on Civil and Political Rights		
10	2hr.	Knowledge Human rights law, characteristics of the law, international humanitarian law Human rights in the contemporary stage	Human rights law, characteristics of the law, international humanitarian law Human rights in the contemporary stage		
11	2hr.	Knowledge International human rights conventions Human rights categories, non-governmental organizations defending human rights	International human rights conventions Human rights categories, non-governmental organizations defending human rights		
12	2hr.	Knowledge Human rights in Islamic law, Human rights in the Universal Declarations	Human rights in Islamic law Human rights in the Universal Declarations		

13	2hr.	Knowledge Human rights in the Constitution of the Republic of Iraq for the year 2005 Types of public rights and freedoms, traditional public rights and freedom	Human rights in the Constitution of the Republic of Iraq for the year 2005 Types of public rights and freedoms, traditional public rights and freedoms		
14	2hr.	Knowledge Intellectual rights freedoms	Intellectual rights and freedoms		
15	2hr.	exam	exam		

11. Course Evaluation

The evaluation of students shall be consistent with the evaluation requirements that were agreed upon in the College Council and with the approval of the Council of Deans of the Colleges of Medicine that follow the integrative approach, by adopting 30% annual tuition collected from the mid-semester exam for the theoretical subject. The final exam represents 70% of the grade

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Principles of teaching human rights / a book issued by the United Nations / Geneva / May 2003 Abbas Fadel Al-Dulaimi, Human Rights Thought and Practice, Iraq, Central Press / University 2013, Diyala Websites on the Internet
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

13. Faculty

Faculty Members						
Academic Rank	Specialization		Special Requirement		Number of the teaching staff	
	General	Special			Staff	Lecturer
assist. Lecturer Marwa Mohsen Talib	Master's degree in history	Master's degree in history				Lecturer
assist. Lecturer Donia Salman Mohsen	Master's degree in history	Master's degree in history				Lecturer

Course Description Form

First stage

1. Course Name:	
Molecules, genes and Diseases	
2. Course Code:	
3. Semester / Year:	
First stage / semester S2	
4. Description Preparation Date:	
12/3/2025	
5. Available Attendance Forms:	
attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 hrs. / 4 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Wamedh Hashim Abass Email: wamedh.abbas@uobasrah.edu.iq	
8. Course Objectives	
Course Objectives	<p>The goal of this course is for students to understand the general relationship between chromosome-related processes, gene expression, and cell activity.</p> <p>2– Students must gain knowledge of the basic processes of genetics and mutations and how they can affect patients.</p> <p>3– Students must acquire knowledge regarding the diversity of protein structures necessary to carry out a range of cellular processes and be able to link genes to nucleic acids and proteins in the overall process of gene expression, including protein synthesis and secretion.</p> <p>1– Students should gain an understanding of the use of molecular analyzes in clinical situations, and some of the ethical issues associated with them.</p>
9. Teaching and Learning Strategies	

Strategy

The course is taught in 30 lectures for large groups (for one hour per lecture) and 15 lectures for small groups (for two hours per lecture) over a period of fifteen weeks. Attending lectures and small groups is mandatory, and students are evaluated weekly for their academic level, attendance, and interaction. In addition to lectures and small groups, a significant amount of private study (self-learning), referred to as directed learning, takes place in each session as an orientation. For small groups, students should work in small groups. Each student is assigned a group number; So the student will always be in the same group.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1hr	Identify the main organelles in a mammalian cell and list their functions. (LO 1.1)	Introduction to the cell.		
	1hr	<ul style="list-style-type: none"> List the principal differences between a prokaryotic and an eukaryotic cell. (LO 1.2) Discuss the bonds important for macromolecular structure interaction. (LO 1.3) Explain the differences between hydrophobic and hydrophilic molecules in water. (LO 1.4) Explain the concept of pH, pK and buffers. (LO 1.5) Recognise and draw the generalised structure of an amino acid. (LO 1.6) Classify amino acids according to the properties of their side chains. (LO 1.7) Explain how the charges on amino acids are affected by pH. (LO 1.8) Show how a peptide bond is formed and list its key features. (LO 1.9) Explain how amino acid charge can influence the isoelectric point of a protein. (LO1.10) 	Amino acids and proteins.		
2	1hr	Describe what is meant by the primary, secondary, tertiary and quaternary structure of proteins. (LO 2.1)	Protein folding and function.		
	1hr	<ul style="list-style-type: none"> Describe the types of bonds and forces involved in protein structure. (LO 2.2) Explain the key features of the two major secondary structure elements of proteins (α-helix and β-sheet). (LO 2.3) 	Haemoglobin and myoglobin.		

		<ul style="list-style-type: none"> • Explain the physiological roles of myoglobin and haemoglobin. (LO 2.4) • Contrast the oxygen-binding properties of myoglobin and haemoglobin and explain why haemoglobin is most suited to its role as an oxygen transporter. (LO 2.5) • Describe the major structural differences between oxygenated and deoxygenated haemoglobin and the molecular basis of cooperativity. (LO2.6) • Describe the effects of CO₂, H⁺, 2'3-bisphosphoglycerate and carbon monoxide on the binding of oxygen by haemoglobin, and the physiological significance of these effects. (LO 2.7) • Appreciate that mutations in globin genes can give rise to diseases such as sickle cell anaemia or thalassemia. (LO 2.8) 			
3	1hr	Explain the effects of enzymes on chemical reactions. (LO 3.1)	Enzyme activity.		
	1hr	Describe how reaction rates vary as a function of enzyme and substrate concentration. (LO 3.2) <ul style="list-style-type: none"> • Define the terms activity, international unit of enzyme activity, and V_{max}. (LO 3.3) • Analyse and interpret kinetic data for enzyme-catalysed reactions. (LO 3.4) • Describe the effects of enzyme inhibitors on enzyme kinetics and be able to distinguish between the two from simple graphs. (LO 3.5) • List the major regulatory mechanisms that control enzyme activity (plus examples). (LO 3.6) • Discuss the allosteric properties of a key regulatory enzyme such as phosphofructokinase. (LO 3.7) • Discuss the concept of enzyme cascades and the use of protein kinases and phosphatases to regulate activity. (LO 3.8) • Define the term zymogen and give examples of enzymes that are derived from zymogens. (LO 3.9) • Explain how activation of the clotting cascade leads to the formation of a fibrin clot. (LO 3.10) 	Regulatory strategies.		

		<ul style="list-style-type: none"> • Discuss the mechanisms that are involved in the regulation of formation and breakdown. (LO 3.11) 			
4	1hr	<p>Recognize the structural components of a DNA and an RNA molecule. (LO 4.1)</p> <ul style="list-style-type: none"> • Recognize and apply the conventions used to represent these components and the conventions used to represent DNA or RNA base sequences. (LO 4.2) • Explain polarity of a DNA or RNA chain. (LO 4.3) • explain the importance of hydrogen-bonding and base-pairing in defining nucleic acid secondary structure. (LO 4.4) • Describe the key features of the DNA double helix. (LO 4.5) • Explain how eukaryotic DNA is condensed in nucleosomes and relate this to the structure of chromosomes. (LO 4.6) • Describe the process and role of DNA replication. (LO 4.7) • Explain the role of DNA polymerase and other enzymes in DNA replication. (LO 4.8) • Show an appreciation of the vast amount of DNA present in a cell and explain how even single base changes in this vast amount of DNA can cause disease. (LO 4.9) • Describe the process and the role of the cell cycle. (LO 4.10) 	Nucleotides and nucleic acids.		
	1hr		DNA, chromosomes and DNA replication.		
5	1hr	<p>Describe the process and role of transcription. (LO 5.1)</p> <ul style="list-style-type: none"> • Describe the process and role of translation. (LO 5.2) • Define the term gene. (LO 5.3) • List and summarise the major reactions involved the process of RNA maturation in eukaryotes and explain their importance in gene expression. (LO 5.4) • Explain the nature of the triplet code and be able to apply the genetic code. (LO 5.5) • Comprehend the implications of the degeneracy of the genetic code. (LO 5.6) • Contrast the different types of RNA molecule, i.e. mRNA, rRNA and tRNA. (LO 5.7) 	What is a gene and transcription.		
	1hr		The genetic code and translation.		

		<ul style="list-style-type: none"> • Compare and contrast gene expression in mammalian and bacterial cells and explain how the differences can be exploited clinically. (LO 5.8) • Predict the effects of various mutations in a gene. • Explain how mutations outside the coding region can affect gene expression. (LO 5.10) 			
6	1hr	Describe the process and role of mitosis. (LO 6.1) <ul style="list-style-type: none"> • Describe the process and role of meiosis. (LO 6.2) • Distinguish clearly between genotype and phenotype. (LO 6.3) 	Mitosis and meiosis genotypes phenotypes.		
	1hr	<ul style="list-style-type: none"> • Explain how environmental factors have an influence on both phenotype and genotype. (LO 6.4) • Distinguish clearly between gene and allele. (LO 6.5) • Describe the different patterns of inheritance and be familiar with examples. (LO 6.6) • Explain dominance, recessiveness, co-dominance and complementation. (LO 6.7) • Describe the basis of the co-inheritance of certain traits. (LO 6.8) • Draw a family pedigree according to convention from a given family history. (LO 6.9) • Relate genetic information from a pedigree and describe the family concerned. (LO 6.10) • Use genetic data to calculate probability of inheritance and recombination frequency (LO 6.11) 	Genetic linkage pedigree analysis.		
7	1hr	Have an awareness of the level of your knowledge and understanding of the topics covered so far in this module. •	Review in session 1 session 6.		
	1hr	Review whether the amount of time spent on your private study for this module so far is sufficient.			
8	1hr		Protein processing in cell the secretory pathway.		

	1hr	<p>Contrast the constitutive and regulated secretory pathways. • Provide an overview of the secretory pathway in mammalian cells. (LO 8.2)</p> <ul style="list-style-type: none"> • List protein modifications which occur in the ER and Golgi complex. (LO8.3) • Distinguish between N-linked and O-linked glycosylation of proteins. (LO8.4) • Describe the role that proteolytic processing plays in the formation of important secreted proteins. (LO 8.5) • Outline the formation of the mature insulin molecule. • Describe the structure of the triple-stranded collagen helix and provide an overview of collagen biosynthesis. • Outline the mechanisms involved in targeting proteins to several different cellular compartments. • Describe the structure and mode of action of selected antibiotics and growth inhibitors. (LO 8.9) • Provide an overview of the general mechanisms by which cells can become resistant to an antibiotic or drug. 	Proteolytic process within the secretory pathway; collagen.		
9	1hr	Describe in general terms a number of standard molecular processes, such as gene cloning, restriction analysis and DNA sequencing. (LO 9.1)	Molecular diagnosis 1.		
	1hr	<ul style="list-style-type: none"> • Describe the theory behind DNA electrophoresis and how this technique can be used to provide information about DNA fragments. (LO 9.2) • Explain PCR and appreciate its fundamental importance in genetic testing. (LO 9.3) • Describe DNA hybridisation and appreciate its role of in genetic testing. (LO 9.4) • Understand how PCR, restriction analysis and DNA hybridisation can be used in allele-specific tests. (LO 9.5) • Describe the theory behind protein electrophoresis and how this 	Molecular diagnosis 2.		

		<p>technique can be used to provide information about protein structure. (LO 9.6)</p> <ul style="list-style-type: none"> • Understand the basis for the use of enzyme assays. • Explain how antibodies can be used in immunoassays and Western blotting to detect the presence of proteins. 			
10	1hr	<p>Explain the relationship between changes in nucleotide and amino acid sequences. (LO 10.1)</p> <ul style="list-style-type: none"> • Describe the different types of mutational changes, e.g. point mutation, insertion, deletion. (LO 10.2) • Predict and explain the effect that different mutations may have, e.g. silent mutation, missense mutation, nonsense mutation, frameshift mutation. (LO 10.3) • Describe how spontaneous and induced mutations may occur. (LO 10.4) • Describe the genetic link between mutation and mutant and explain how some mutations can be inherited. • Describe the process and the role of DNA repair. • Explain the relationship between DNA damage and cancer. (LO 10.7) • Recognise the fundamental importance of PCR in the diagnosis of genetic disease. (LO 10.8) • Provide an overview of the different genetic tests available for the detection of mutations in genes. • Show an appreciation of the ethical issues associated with genetic testing. (LO 10.10) ————— 	<p>Mutagenesis and effects.</p>		
	1hr		<p>Detecting disease-caus mutations.</p>		
11	1hr	<p>Explain how the genetic information in a cell is organised as chromosomes. (LO 11.1) • Describe the chromosomal basis of sex determination. (LO 11.2) • Describe numerical and structural chromosome abnormalities and their significance. (LO 11.3) • Be familiar with the concept of karyotyping. (LO 11.4) • Recognise, comprehend and apply chromosome nomenclature. (LO 11.5) • Outline the reasons for referral of</p>	<p>Numerical chromosome abnormalities.</p>		
	1hr		<p>Structural chromosome abnormalities.</p>		

		patients for karyotyping. (LO 11.6) • Explain how fluorescent in situ hybridisation (FISH) works and recognise its importance in the detection of chromosomal abnormalities. (LO 11.7) • Provide an overview of the different genetic tests available for the detection of chromosomes abnormalities. (LO 11.8) • Show an appreciation of the ethical issues associated with genetic testing. (LO 11.9)			
12	1hr	Knowledge the Molecular diagnosis and chromosomal Abnormalities	Molecular diagnosis and chromosomal Abnormalities		
	1hr				
13	1hr		Ames test		
	1hr				

11. Course Evaluation

The evaluation of students shall be consistent with the evaluation requirements that were agreed upon in the College Council and with the approval of the Council of Deans of the Colleges of Medicine that follow the integrative approach, by adopting 20% annual endeavors obtained from multiple quizzes. The pattern of questions shall be similar to the final examination. The final exam represents 80% of the grade

There will be two papers for the exam: the first consists of questions that are answered with short answers, which are combined with the rest of the modules to form integrative questions. The Molecules, Genes and Diseases module's share is 30 marks out of 120 marks. As for the second paper, the questions are answered with the best selected answers, and the module score is also 30 out of 120 degrees. In both papers, the questions are distributed in a way that includes all the academic topics that were given to the students.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Baynes & Dominiczak – Medical Biochemistry (3rd ed, 2009, 978- 0323053716) • Cummings – Human Hereditary (9th ed, 2011, 978-0840053183) • Lieberman & Marks – Marks’ Basic Medical Biochemistry (4rd ed, 2008, 978-0781770224) 978-1-60831-572-7
Main references (sources)	•Alberts et al. – Essential Cell Biology (3rd ed, 2009) Harvey & Ferrier – Lippincott’s Illustrated Reviews: Biochemistry (5th ed, 2010) • Chandar & Viselli – Lippincott’s Illustrated Reviews: Cell and Molecular Biology (2010)
Recommended books and references (scientific journals, reports...)	•Lieberman et al. – Marks’ Essentials of Medical Biochemistry (2007) • Read & Donnai – New Clinical Genetics (2nd ed, 2011)
Electronic References, Websites	

13. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assis. Prof. Dr. Hussein K. Abdul-Sada	Microbiology	Virology			Staff	Head of the Dept.
Prof. Dr. Hazim T. Thwani	Microbiology	Medical Microbiology			Staff	

Assis Prof. Dr. Wameedh H. Abbas	Microbiology	Medical Microbiology			Staff	
Assis Prof. Dr. Abeer L. Mohammed	Microbiology	Bacteria			Staff	
Lecturer Dr. Ban M. Saed	Microbiology	Bacteria			Staff	
Lecturer Dr. Shant I. Sumbat	Microbiology	Medical Microbiology			Staff	
Lecturer Dr. Zainab Khalid	MBChB	Clinical Immunology			Staff	
Lecturer Dr. Farqid majeed Mohsen	Microbiology	Medical Microbiology			Staff	
Doctor Ilham Mohammed Jawad	MBChB	Medical Microbiology/ Immunology				Attributed from Basra health directorate
Dr.Zainab Ahmed	Bachelor of General Medicine and Surgery	Clinical Biochemistry			staff	

Dr.Amani Naama	Bachelor of General Medicine and Surgery	Clinical Biochemistry			staff	
Dr.Maida Adnan	College of science	Analytical chemistry			staff	
Dr.Zainab Muzahim	Bachelor of General Medicine and Surgery	Pathological chemistry			staff	
Ass. Lecturer Eatidal Akram	College of science	Biochemistry			staff	
Dr.Hamid Jaddoa	College of science	Clinical biochemistry				Lecturer

Course Description Form

First stage

Course Name:					
metabolism					
Course Code:					
Semester / Year:					
Semester					
Description Preparation Date:					
1/4/2025					
Available Attendance Forms:					
Attendance only					
Number of Credit Hours (Total) / Number of Units (Total)					
60 hours per semester (30 theoretical lecture hours and 30 small group hours).					
*The number of units is 4, where every 15 hours represents one unit					
Course administrator's name (mention all, if more than one name)					
Name: Dr.Amani Naama(module leader)					
Email: amani.mohammed@uobasrah.edu.iq					
Course Objectives					
<p>– Graduating skilled medical students and preparing them to be professional doctors who knowledgeable about diseases and their causes.</p> <p>2 – Teaching the student how to recognize and understand the vital activities that take place the human body at the molecular level</p> <p>3– Knowledge of Biochemical tests used to diagnose some diseases</p>					
Teaching and Learning Strategies					
<p>1. Lectures are delivered in PowerPoint format using demonstration tools such as illustrations and charts</p> <p>2. Students participate in small group sessions</p> <p>3 Student interaction during lectures</p>					
Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	4	1-Definition of daily energy expenditure 2-The essential components of diet 3-Clinical consequences of protein and energy deficiency in man 4-Body mass index 5-definition of obesity 6-Definition of homeostasis 7-Examples of biological rhythms ythm	nutrition body weight homeostasis circadian rh	Lecturing students on how to acknowledge and understand the vital activities inside the human body on a molecular level as well as chemical examinations in the diagnosis of some	1.weekly exams including Quizzess 2. Final examinations at end of the academic year
2	4	1-definition of cell metabolism. 2-difference between catabolism and metabolism 3-the role of ATP and creatine phosphate 4-explain the general functions of CHO 5-the digestion and absorption of CHO 6-key features of glycolysis	1.Cell metabolism 2. carbohydrate metabolism 1		
3	4	1-Describe the pentose phosphate pathway 2-Describe the clinical role of glucose 6-phosphate dehydrogenase deficiency 3-Describe the biochemical features of lactose intolerance and galactosaemia 4-Describe the Role of TC in metabolism 5-Describe the process of gluconeogenesis	Carbohydrate metabolism 2 tricarboxylic cycle & Gluconeogenesis		
4	4	Describe the key features of oxidative phosphorylation explain the processes of electron transport and ATP synthesis 3-Describe the reactions involved in glycogen synthesis and breakdown 4-Compare the function of liver and muscle glycogen 5-Explain the clinical consequences of glycogen storage diseases. 6-Describe the various classes of lipids. and Describe	Oxidative phosphorylation fuel storage		

		how fatty acid degradation differs from fatty acid synthesis			
5	4	<p>1-Describe how amino acids are catabolized in the body.</p> <p>2-Describe how ammonia is metabolized in the body.</p> <p>3-Explain the clinical relevance of measuring creatinine in blood and urine.</p> <p>4-Explain the clinical consequences of a defect in phenylalanine metabolism.</p> <p>5-Explain how, when and why ketone bodies are formed.</p> <p>6. Describe how lipids are transported in the blood.</p> <p>7. Explain how tissues obtain the lipids they require from lipoproteins.</p> <p>8. How clinical problems related to lipids transport defects.</p> <p>9. Explain how hyperlipoproteinaemias may be treated.</p>	<p>protein metabolism .</p> <p>Lipid transport</p>		
6	4	<p>1-describe the major metabolic fuels and their sources in the normal individual.</p> <p>2-describe how the blood glucose concentration is controlled and explain why this is necessary.</p> <p>3-compare and contrast the effects of insulin and glucagon on nutrient storage and mobilisation.</p> <p>4-describe the metabolic responses to feeding and fasting and explain how they are controlled.</p> <p>5-describe the metabolic responses to starvation and explain how they are controlled.</p> <p>6-compare and contrast phase I and phase II of drug metabolism discuss the importance of the cytochrome P450 system</p> <p>7-explain variation in drug metabolism in the population</p>	<p>-Control of Energy Metabolism</p> <p>Drug metabolism</p>		
7	4	<p>1-Definition of 'hormone'</p> <p>list the features of communication processes involving hormones.</p>	<p>Introduction to endocrinology & Pancreas</p>		

		<p>2- List the classes of chemical substances which can act as hormones.</p> <p>3- Describe how hormones are transported and act on target cells.</p> <p>4- Explain, in general terms, the ways in which hormone secretion may be controlled.</p> <p>5. list the hormones produced by the pituitary and adrenal glands together with their Functions</p> <p>6-Describe the actions of insulin and glucagon.</p> <p>-Describe how the ultrastructure of the β-cell relates to the synthesis and storage of insulin.</p> <p>7- Explain the roles of insulin and glucagon in the control of metabolism.</p>	Introduction to endocrinology & Pancreas		
8	4	<p>1 ➤ Describe the control of appetite.</p> <p>2 ➤ Discuss the hormones involved in the control of appetite.</p> <p>3 ➤ Discuss metabolic syndrome and its consequences.</p> <p>4 ➤ Explain the Developmental Origins of Health and Disease theory and epigenetics.</p> <p>5- Describe Diabetes Mellitus (DM).</p> <p>6 The main differences between Type 1 diabetes (T1D) and Type 2 diabetes (T2D)</p> <p>7- The typical pattern of presentation of T1D and T2D.</p> <p>8- The sequence of events leading to ketoacidosis.</p> <p>9- The causes and consequences of hypoglycemia.</p> <p>10-The consequences of hyperglycemia, the common long-term side effects of DM</p> <p>11-- The principles of management of DM.</p> <p>12- The principle practice of measurement of glycosylation of hemoglobin as an index of blood glucose control in the diabetic.</p>	Diabetes mellitus Control of appetite		

9	4	<p>1-describe the location and structure of the thyroid gland.</p> <p>2· describe the chemical structure of the thyroid hormones and the mechanisms of their production, storage and secretion.</p> <p>3· describe how the activity of the thyroid gland is controlled.</p> <p>4· describe the effects of thyroid hormones on cells and the body as a whole.</p> <p>5· describe the consequences of over- and under-secretion of thyroid hormones.</p> <p>6· analyse simple case histories involving disorders of thyroid secretion.</p>	Thyroid gland		
10	4	<p>1· explain the significance of maintaining serum calcium levels within set limits</p> <p>2· list the hormones involved in the control of calcium levels in serum</p> <p>3· describe the hormonal regulation of serum calcium</p> <p>4· explain the interaction of parathyroid and vitamin D</p> <p>5· explain the regulation of parathyroid hormone and vitamin D</p> <p>6· explain the significance of renal function on calcium metabolism</p> <p>7· describe disorders of calcium metabolism and metabolic bone disease</p> <p>8· list the hormones produced by the pituitary and adrenal glands together with their functions.</p> <p>9· describe in general terms the structure of the steroid hormones.</p> <p>10· explain how the steroid hormones affect their target tissues.</p> <p>11· explain how cortisol secretion is controlled by ACTH and CRH.</p> <p>12· describe in general terms the structure and function of adrenaline.</p>	Calcium Metabolism Pituitary and Adrenals		
11	4	<p>1.explain how cortisol secretion is controlled by ACTH and CRH.</p>	adrenal cortex disorders Adaptations of metabolism		

		2· explain how ACTH can lead to increased pigmentation in certain areas of the body. 3· describe the main action of cortisol. 4· explain the effects of over and under-secretion of cortisol. 5· describe tests of adrenal cortical function 6· explain how cortisol can have weak mineralocorticoid and androgen effects. 7· describe the metabolic and hormonal response to pregnancy 8· explain the hormonal basis of gestational diabetes 9· describe the metabolic and hormonal responses to various types of exercise 10· explain the benefits of exercise			
12	4		Revision		

Course Evaluation

1 The evaluation of students shall be consistent with the evaluation requirements that were agreed upon in the College Council and with the approval of the Council of Deans of the Colleges of Medicine that follow the integrative approach, by adopting 20% annual scholarship collected from multiple tests and quizzes. The pattern of questions shall be similar to the final examination. . The final exam represents 80% of the grade There are two papers for the exam: the first consists of questions that can be answered with short answer questions, which are combined with the rest of the modules to form complementary questions. The metabolism module's score is 30 marks out of 120 marks. As for the second paper, the questions are answered with the best chosen answers, and the module score is also 30 out of 120 degrees. In both papers, the questions are distributed in a way that includes all the academic topics that were given to the students

. For weekly tests including TBL tests

2. Final exams at the end of the academic year

Learning and Teaching Resources

Work book of metabolism module

1–Marks Essentials of Medical Biochemistry.

.2 Ganong's Review of Medical Physiology–

.3Medical Biochemistry, Baynes and Dominiczak

4. Medical Physiology Walter F. Boron and Emile L. Boulpaep

1. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Dr.Zainab Ahmed	Bachelor of General Medicine and Surgery	Clinical Biochemistry			staff	
Dr.Amani Naama	Bachelor of General Medicine and Surgery	Clinical Biochemistry			staff	
Dr.Maida Adnan	College of science	Analytical chemistry			staff	
Dr.Zainab Muzahim	Bachelor of General Medicine and Surgery	Pathological chemistry			staff	
Ass. Lecturer Eatidal Akram	College of science	Biochemistry			staff	
Ass. Lecturer Ibrahim Ayad	College of medical technique	Clinical biochemistry			staff	
Dr.Hamid Jaddoa	College of science	Clinical biochemistry				Lecturer
Dr.Israa Mazin	Bachelor of General Medicine and Surgery	Pathological chemistry				Lecturer
Dr.Noor Ibrahim	Bachelor of General Medicine and Surgery	Pathological chemistry				Lecturer
Dr.Ammar Mohammed	Bachelor of General Medicine and Surgery	Board speciality in internal medicine				Lecturer
Dr.Laith Anmar	Bachelor of General Medicine and Surgery	Pathological chemistry				Lecturer

2. Expected learning outcomes of the program
Knowledge
<p>1- Cognitive objectives.</p> <p>1. How to recognize and understand the vital activities taking place in the human body</p> <p>2. Knowing the mechanism of biochemical tests used to diagnose some diseases</p> <p>Learning Outcomes Statement 1</p>
Skills
<p>1-For intellectual and proficient purposes, knowing how to recognize and understand the vital activities within the human body</p> <p>2- To learn about the mechanisms of biochemical tests used in diagnosing some diseases</p>
Ethics
<p>1– Graduating scientific doctors and scientists who hold humanity as the basis of their work.</p> <p>2– Doctors know exactly how to deal psychologically and ethically with their patients</p> <p>3–Doctors completely protect their patients’ secrets</p> <p>4– Doctors work as a team and do not mind cooperating with each other because they have learned to work collectively</p>

Course Description Form

First stage

24.	Course Name		
		: health and disease in population	
25.	Course Code:		
		HaDPop	
26.	Semester / Year:		
		First stage / Second semester / S2	
27.	Description Preparation Date		
		: 26/3/2025	
28.	Available Attendance Forms		
		: actual attendance	
29.	Number of Credit Hours (Total) / Number of Units (Total)		
		60 semester hours (30 theoretical lecture hours and 30 small group hours) The number of units is 4, where every 15 hours represents one unit	
30.	Course administrator's name (mention all, if more than one name)		
	Name: Rajaa Ahmed Mahmoud Email: raja.mahmoud@uobasrah.edu.iq Name: Ziyad Tariq Maki Email: ziyad.maki@uobasrah.edu.iq		
31.	Course Objectives		
Course Objectives	<ol style="list-style-type: none"> 1. Graduating skilled medical students and preparing them to be able to critically review and interpret basic epidemiological texts. 2. Thorough knowledge of how to identify and measure health and disease events in populations. 3. Evaluate the quality and suitability of the data used for description. 4. Apply descriptive concepts and principles of epidemiology to achieve effective public health practice. 5. Knowing the link between scientific research and the information given in lectures..... 		
32.	Teaching and Learning Strategies		
Strategy	Since the founding of the college in 2017-2018, the Community Health and Family Medicine Branch at Al-Zahraa College of Medicine has used the integrative education style of lectures and discussions in small groups.		

	<p>Education is based on understanding the content without memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period 15 weeks, including a week for review and evaluation exam.</p> <ul style="list-style-type: none"> - Brainstorming education strategy - Education strategy notes series
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33. Course Structure

Week	Hrs.	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	<p>1-To describe the structure of the HaDPop module and to explain the purpose of the small group sessions and lectures.</p> <p>2. To recognise the need for a perspective beyond that of the individual patient who presents to a doctor, and to understand the implications of a focus at the level of the population as a whole rather than at the level of the individual.</p> <p>Small group</p> <p>1-Recognize the importance of the population (epidemiological) perspective in assessing disease frequency, in establishing the cause of disease and in assessing the benefits of treatment</p> <p>2-Describe how to set about doing a study in which the extent of a health problem is to be measured.</p>	Introduction to epidemiology	<p>Integrated education strategy represented by lectures and discussions in small groups. Education is based on understanding the content without memorizing it alone, which makes recalling content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of the two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period of 15 weeks, including a week for review and evaluation exam.</p>	Every 2 weeks there is a quiz in a form similar to that of the final exam
2	4	<p>1. Define, health, disease and understand The concept of epidemiology.</p> <p>2. Provide a historical perspective into the scientific understanding of the causes of infectious diseases.</p>	History , Hygiene and Hospital infection		

		<p>3.Explain the importance and limitations of the Henle-Koch postulates.</p> <p>4.Describe the role of population studies in linking micro-organisms to disease.</p> <p>5,Describe how infectious diseases can spread.</p> <p>6.Identify key elements underpinning problems and solutions in controlling infection in our hospitals.</p> <p>Small group</p> <p>1-Describe how infectious diseases can spread.</p> <p>2-Identify key elements in controlling infection in our hospitals.</p>			
		<p>1. Describe the features and relevance of a population census.</p> <p>2. Births :</p> <p>a. define the Crude Birth Rate, General Fertility Rate and Total Period Fertility Rate, and understand how they differ</p> <p>b. discuss the main determinants of fertility.</p> <p>3. Describe the derivation and uses of mortality data.</p> <p>4. Describe the variables affecting population estimates and projections.</p> <p>5. Describe how health information is used to:</p> <p>a. Identify health and healthcare needs.</p> <p>b. Monitor trends in disease.</p> <p>c. Monitor performance in healthcare.</p> <p>Small group</p> <p>1. Understand the relevance of health care data to individual and collective clinical practice.</p> <p>2. Interpret the information that is presented from such data.</p>	<p>Uses of health information”Birth,Deaths and Populations”</p>		

		<p>3. Understand how to interpret appropriately comparisons between data Sources , between clinical centres and over time.</p> <p>4. Describe why ranking centres in a league table does not give information about whether their performance is significantly the best or worst.</p>			
		<p>1. Define and differentiate between the terms 'incidence' and 'prevalence', and describe the inter-relationships between incidence and prevalence and changing patterns of death or cure.</p> <p>2. Describe the importance of systematic variation in risk of disease between groups:</p> <p>a. as a useful source of information about causes of disease</p> <p>b. as a nuisance which needs to be controlled for.</p> <p>3. Explain the purpose of age/sex standardisation.</p> <p>4. Interpret a Standardised Mortality/Morbidity Ratio (SMR).</p> <p>Small group</p> <p>1. Analyze and interpret a simple table of prevalence estimates in the context of needs assessment.</p> <p>2. Interpret population pyramids for population subgroups.</p> <p>3. Calculate and interpret a Standardised Mortality Ratio (SMR) and demonstrate why crude rate ratios can be misleading.</p>	Measuring diseases in population		
		<p>1. Distinguish between 'observed' epidemiological quantities (incidence, prevalence, incidence rate ratio, etc.) and their 'true' or 'underlying' values.</p>	Source of Variation		

		<p>2. Discuss how 'observed' epidemiological quantities depart from their 'true' values because of random variation.</p> <p>3. Describe how 'observed' values help us towards a knowledge of the 'true' values by</p> <ol style="list-style-type: none"> allowing us to test hypotheses about the 'true' values allowing us to calculate a confidence interval that gives a range which includes the 'true' value with a specified probability. <p>Small group</p> <ol style="list-style-type: none"> Demonstrate an understanding of the effects of random variation. Calculate confidence intervals using the error factor and interpret a 95% confidence interval appropriately. Perform and interpret tests of a null hypothesis Be able to explain the interrelationship between, but the different roles of, hypothesis testing and estimation. 			
6	4	<p>1. Describe types of epidemiologic study designs.</p> <p>2. Describe the logical basis of, and the practical problems involved in, cohort studies of disease incidence.</p> <p>3. Compare incidence rates or mortality rates between two groups of individuals within a cohort by calculating the incidence rate ratio (IRR), i.e. internal comparisons.</p> <p>4. Compare disease incidence or mortality in a study cohort with that in a reference population using standardisation methods (e.g. the SMR), i.e.</p>	Cohort studie		

		<p>external comparisons.</p> <p>5. Describe the factors determining the precision of an estimated relative risk.</p> <p>Small group</p> <p>1. Describe the basic principles underlying cohort studies.</p> <p>2. Design a cohort study, and discuss practical difficulties in conducting such a study.</p>			
7	4	<p>1. Describe the principles underlying case-control studies.</p> <p>2. Describe the differences and similarities between case-control studies and other epidemiological study designs.</p> <p>3. Outline the factors which suggest that a case-control study design might be suitable for a particular epidemiological question.</p> <p>4. Describe the limitations and assumptions inherent in case-control study designs.</p> <p>5. Estimate the strength of an association from the result of a simple case-control study, calculate and interpret the error factor and 95% confidence interval for this estimate.</p> <p>Small group</p> <p>1. Read and critically assess a published case-control study. (To be discussed in the next sessions)</p> <p>2. Identify methodological problems peculiar to case-control studies.</p>	Case – Control studies		
8	4	<p>Session 9 L1</p> <p>1. Define and describe the purpose of clinical trials.</p> <p>2. Explain the disadvantages of non-randomised clinical trials</p>	Randomized controlled trials (RCT)		

		<p>and the use of historical controls.</p> <p>3. Outline the steps involved in a randomised controlled trial (RCT).</p> <p>4. Discuss the advantages of 'random allocation' and 'blinding' to minimise confounding and bias in the estimation of treatment effects.</p> <p>5. Describe the 'placebo effect', what a 'placebo' is, and how a 'placebo' addresses the 'placebo effect'.</p> <p>6. Describe suitable 'outcome measures' for clinical trials.</p> <p>Session 9 L2</p> <p>1. Discuss how to deal with 'losses to follow-up' and 'non-compliance'.</p> <p>2. Differentiate between 'explanatory' and 'pragmatic' trials and be able to explain the meaning of the term 'intention-to-treat' analysis.</p> <p>3. Discuss the ethical principles involved in medical research involving human subjects</p> <p>4. Describe the issues that should be considered for a clinical trial to be regarded as ethical.</p> <p>5. Describe the role and function of a Research Ethics Committee.</p> <p>Small group</p> <p>1. Recognise and describe the distinguishing features of randomised controlled trials.</p> <p>2. Describe the key steps in the design of a randomised controlled trial</p>			
9	4	<p>1. Explain what is meant by a cause-effect relationship in an epidemiological context.</p> <p>2. Recognise that associations may be</p>	Causality: causal or merely association		

		<p>present in the absence of a true cause-effect relationship.</p> <p>3. Evaluate the strength of evidence in favour of a cause-effect relationship.</p> <p>4. Describe how to distinguish causal from non-causal associations.</p> <p>Small group</p> <p>1. Critically appraise evidence from a variety of studies about the relationship between an exposure and a disease.</p> <p>2. Decide on the basis of such evidence whether the relationship is causal or artefactual.</p>			
10	4	<p>1. Explain the role of evidence in clinical practice.</p> <p>2. Define a systematic review.</p> <p>3. Explain the purposes of systematic reviews.</p> <p>4. Interpret a 'Forest plot'.</p> <p>5. List common difficulties in systematic reviews</p> <p>Small group</p> <p>1. Find a systematic review.</p> <p>2. Read and understand a systematic review.</p> <p>3. Critically appraise a systematic review.</p> <p>4. Consider your clinical practice with respect to the available evidence and justify your decision.</p>	Reviewing the Evidence: Critical Appraisal Skills Programmes		
11	4	<p>1-Understand how epidemiological evidence contributes to clinical practice.</p> <p>2-Understand the role of epidemiological evidence and population health information in determining public health policy.</p> <p>3-Make an assessment of whether there is sufficient evidence to act upon it.</p>	From Research to Practice		

			HaDPop-Mod Revision Issu		
34. Course Evaluation					
<p>The evaluation of students shall be consistent with the evaluation requirements that have been agreed upon in the college council and with the consent of the council of deans of medical colleges that follow the integrative approach, by adopting 20% annual endeavors obtained from multiple quizzes. The pattern of questions shall be similar to the final examination. The final exam represents 80% of the grade</p> <p>There will be two exam papers: the first consists of questions that can be answered with short answers, which are combined with the rest of the modules to form complementary questions. The share of the health and disease in population module is 30 marks out of 120 marks. As for the second paper, the questions are answered with the best selected answers, and the module score is also 30 out of 120 degrees. In both papers, the questions are distributed in a way that includes all the academic topics given to the students.</p> <p>The college also has an important evaluation program that shows the teaching staff the progress achieved in the level of students, called the Personal and Professional Development Program.</p>					
35. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			Health and disease in population module workbo Leicester University, College of Medicine.		
Main references (sources)			The recommended textbook is: Epidemiology by leon Gordis.		
Recommended books and references (scientific journals, reports...)			<p>-Vaughan,J.P.&Morrow,R.H.(1989). Manualof Epidemiolo for District Health Management.Geneva :WHO.[ISBN 4154404 X] [Online Available:http://whqlibdoc.who.int/publications/9241504x.pdf [Downloaded20/08/2010].</p> <p>-Katzenellenbogen,J.M.,Joubert,G.&AbdoolKarim,S.S.(199 -Epidemiology :AManualforSouthAfrica. CapeTown:Oxf University Press.[ISBN:0195713087]</p> <p>-Beaglehole, R.,Bonita,R.& Kjellstrom,T.(1993).Basic Epidemiology. -Geneva: WHO.[ISBN9241544465]</p>		
Electronic References, Websites			Google classroom, which students are informed at the beginning of each academic year and regis with their official university emails		

15. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Rajaa Ahmed Mahmmod	PhD. Community medicine					Lecturer
Ziyad Tariq Maki	Board in Family medicine					Lecturer
Nada Hasan Abdulraheem	Board in Family medicine					Lecturer
Huda Hasan Muhaibes	Master in Community medicine					Lecturer
Raya Habib Abdulemam	Board in Community medicine					Lecturer
Juhoud Abdulsamad Molan	Board in Family medicine					Lecturer
Mayada abduljalel	Master in Community medicine					Lecturer
Elaf mohammedsalih Reda	Board in Community medicine					Lecturer
Zainab Barakat Hussain	Board in Family medicine					Lecturer

3. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	<p>1– Graduating doctors who have the ability to know practical methods for measuring health and morbidity in the population.</p> <p>2–Learn how to benefit from health information to identify gaps and reach goals.</p> <p>3– Identify the different scientific methods of medical research.</p> <p>4– Full knowledge of the concept of controlling communicable diseases.</p> <p>5– Knowing the basics of critical evaluation methods for research and studies.</p>
Skills	
Learning Outcomes 2	<p>1-The ability to implement the medical service according to the concept of population benefit, not just the individual.</p> <p>2 - The ability to equip a population of doctors working in health programs, health regions, or other health facilities.</p>
Learning Outcomes 3	The ability to critically evaluate the epidemiological situation and use this information to address public health problems and priorities
Ethics	
Learning Outcomes 4	<p>1–Graduating scientific doctors and scientists who hold humanity as the basis of their work.</p> <p>2– Doctors know exactly how to deal psychologically and ethically with their patients.</p>
Learning Outcomes 5	<p>1–Doctors completely protect their patients’ secrets</p> <p>2– Doctors work as a team and do not mind cooperating with each other because they have learned to work collectively</p>
Professional Development	
Mentoring new faculty members	
Briefly describes the process used to mentor new, visiting, full–time, and part–time faculty at the institution and department level.	
Professional development of faculty members	
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.	

Course Description Form

First stage

36. Course Name:					
Tissue of the Body					
37. Course Code:					
ToB					
38. Semester / Year:					
Second Semester / first stage / S2					
39. Description Preparation Date:					
1/3/2025					
40. Available Attendance Forms:					
Attendance only					
41. Number of Credit Hours (Total) / Number of Units (Total)					
48h total / 4 h weekly					
42. Course administrator's name (mention all, if more than one name)					
Name: Dr. Farqad AlHamdani(module leader)					
Email:fargad.mohsson@uobasrah.edu.iq					
43. Course Objectives					
1- Provide basic information that can be used in identifying and treating diseases. 2- Understand the structure of tissues and their vital functions in the body. 3. Identify changes that occur in tissues as a result of diseases and injuries. 4. Develop and improve techniques for diagnosing and treating tissue-related diseases. 5. Develop new methods for the reconstruction and regeneration of damaged tissues.					<ul style="list-style-type: none"> • • •
In general, the study of body histology aims to understand how different tissues work interact in the body, which helps in the development of new strategies for the prevention treatment of diseases.					
44. Teaching and Learning Strategies					
Strategy		The study of body histology leads to an understanding of how different tissues w and interact in the body, which helps in the development of new strategies for prevention and treatment of diseases, this strategy is based on: - 1. Deliver lectures in PowerPoint format using demo tools such as illustrations. 2. Participation of students in small group sessions to discuss among themselves reach the correct information. 3. Student interaction during lectures 4. Teachers listen to individual questions and discussions			
45. Course Structure					
Week	Hrs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		1- The meaning of histology and tis 2- Tissue classification 3- The relationship between milli, micro-and nanometers 4- Describe common biopsy techni 5- Tissue processing procedure	1. Methods in light microscopy 2 .Cell ultra Structure	1. Lecture in PowerPoint format with t The demo is l the illustratio	1.weekly exams including Quizzess 2. Final Examinations

		6- Explain why tissue needs to be fixed 7- The value of histological staining 8- Types of microscopy 1-Be able to: define the term limit of resolution 2-Explain why electron microscope are capable of finer resolution 3-Understand common components of eucaryotic animal cells. 4-State how a cell functions by describing the structure and function of the following cell components and organelles: plasma membrane ; glycocalyx ; nucleus ; heterochromatin ; euchromatin ; nucleolus ; nuclear envelope ; smooth endoplasmic reticulum ; rough endoplasmic reticulum ; ribosomes ; Golgi apparatus ; secretory vesicles ; lysosomes ; peroxisomes ; mitochondria ; cytoskeleton 5-Out lines of cytoskeleton Composition		2. Participation of students in small group sessions to discuss among themselves to reach the correct information. 3. Student interaction during lecture 4. Teachers listen to questions and individual discussions.	at the end of academic year
2		1-Define epithelium. 2- Give the structure and function of basement membrane. 3-Classification of epithelium. 4-Renewal of each type of epithelium 5-Classification of compound epithelium. 6-Recognize the different types of surface specialization found on epithelial cells.	1.Epithelial Tissue Simple epithelium 2.Epithelial Tissue Stratified epithelium		
3		1-Definition of a gland. 2-Classification of glandular tissue 3-Mechanisms of secretion.LO3 · 4- Mechanisms of endocytosis.LO4 5- Describe how endocytosis and secretion combine to give trans epithelial transport.LO5 · 6-Mechanism and importance of the glycosylation of newly synthesized proteins in the Golgi apparatus. .LO6 7-Role of secretions in cell functions .LO7 · 8-Mechanisms of control of secretion.LO8 1- Definition of term “connective tissue” 2- Connective tissue functions. 3- Basic components. 4- Distinguishing characteristics of loose and dense connective tissue. 5- Structural-functional relationships of main types of loose & dense CTs and their clinical relevance & application	1. Glandular tissue 2. Connective tissue		
4		1- Define the pre embryonic, embryonic and fetal periods of human development. 2: Discuss the changes taking place as the fertilized human ovum (zygote) travels down the Fallopian (uterine) tube to the uterus. 3: Describe the meaning of the following terms: zygote, cleavage,	1.Early embryonic development1 2.Early embryonic development2		

		<p>zona pellucida, morula, ovary, fallopian tube, uterus.</p> <p>4- Discuss the formation of the blastocyst and the initial stages of implantation.</p> <p>5: Meaning of the following terms: blastocyst, trophoblast, inner cell mass, implantation, cytotrophoblast, syncytiotrophoblast.</p> <p>6: Describe the formation of the embryonic disc in the inner cell mass and initial cell differentiation within it. .</p> <p>7: Medical correlate</p>			
5		<p>1-Describe the structural relations between the epithelia and clo associated tissues (glands, underl connective tissue (lamina propria) muscularis mucosae) compri gastrointestinal, urinary, and respir mucosae.</p> <p>2-Discuss, for the gastrointest urinary, and respiratory mucosae, hov structure of their constituent tissue related to their function.</p>	<p>1-Internal body surfaces1</p> <p>2-Internal body surfaces</p>		
6		<p>1. The macroscopic structure of hu skin , and how this large and hi visible organ varies with site, ethnicity and exogenous influence.</p> <p>2. The microscopic and mole structure of human skin.</p> <p>3. The process of keratin differentiation.</p> <p>1.Describe the microscopic and mole structure human skin including: appendage : hair follicles ,sebac glands ,sweet glands,nail, the imme subcutaneous fat (adipose tissue).</p> <p>2. Describe the main functions of the .</p> <p>3. Briefly describe the diseases, w arise as a result of disordered struc and/or function of selected components .</p>	<p>1- Skin 1</p> <p>2- Skin 2</p>		
7		<p>1-Describe the composition of cartilage in terms of its cells and extracellular components.</p> <p>2-The 3 major types of cartilage, describing the structural difference between them.</p> <p>3-Relate the different anatomical distributions of the 3 major types o cartilage to their different function</p> <p>4-Describe the characteristic featur and functions of the different types bone in the body.</p> <p>5-Recognise, and classify bone as compact (dense) or spongy(cancellous/trabecular).</p> <p>6-Describe the composition of bone terms of its cells and extracellular components. (L</p> <p>7-Describe the microstructure of compact (dense) and spongy (cancellous/trabecular) bone.</p> <p>8-Explain how bone is a living tissu undergoing remodeling and repair,</p>	<p>1-Cartilage & Bone</p> <p>2-Bone and ossification</p>		

		<p>9-Describe the cellular processes involved in bone repair following a fracture. (L</p> <p>10- Describe the process of intramembranous and endochondral ossification as related to bone growth. L01</p> <p>11-Describe how the morphology and / or mechanical properties of bone change in disease.</p> <p>12-Explain the role of abnormalities in the composition of bone matrix and the activities of bone cells in bringing about such changes.</p> <p>13-Outline the consequences of four different and contrasting bone diseases for the affected individual and society.</p> <p>14-Describe the genetic basis and histological changes in osteogenesis imperfecta, and its potential medical and legal importance.</p> <p>15-Explain the importance of Vitamin D in normal bone development.</p> <p>16-Describe the features of bones affected by rickets and osteomalacia and appreciate the difference between the two conditions.</p>			
8		<p>1-Describe the process of skeletal muscle remodelling and its relevance to atrophy and hypertrophy.</p> <p>2-Outline the physiology of neuromuscular junction and describe pathogenesis and clinical features of myasthenia gravis.</p> <p>3-State how neuromuscular transmission is disrupted in botulism and organophosphate poisoning.</p> <p>4-Describe the pathophysiology of Duchenne muscular dystrophy.</p> <p>5-Outline the pathophysiology of malignant hyperthermia. (</p>	<p>1-Muscle and Muscle disorders</p> <p>2-Muscle Disorders</p>		
9		<p>1-Describe the structure of a peripheral nerve .</p> <p>2-Recognize the difference between myelinated and non myelinated nerve fiber and ascribe particular roles to each.</p> <p>3-Outline the great variety of synaptic connections in the nervous system</p> <p>4-Identify nerve fibers in both cross and longitudinal section.</p> <p>5-Relate demyelination to a slowing of conduction velocity within a nerve.</p> <p>6- Give an outline of the anatomy of the autonomic nervous system (ANS) and its division into the sympathetic and parasympathetic parts.</p> <p>7- Describe the different pathways by which these two divisions distribute their fibres to and from target organs</p> <p>8-Describe the difference in the overall functional roles of these two divisions</p>	<p>1-Neurons, Nerve fibers&Peripheral nerves</p> <p>2-Fundamentals of the Autonomic Nervous System</p>		

		<p>9- Outline the functional control w the two divisions exert on all t target organs.</p> <p>10- Describe in detail the transmit involved at the synapses and organs of both divisions.</p> <p>11- Briefly account for the importa of these transmitters in the therap domains.</p>			
10		<p>1-Virus definition</p> <p>2-Virus structure</p> <p>3-Virus symmetry</p> <p>4-Classification of viruses</p> <p>5-Replication of viruses</p> <p>6-Viruses and human diseases</p> <p>1- Briefly answer the following questions:</p> <p>What is infection?</p> <p>What causes infection?</p> <p>Why do particular individuals get particular infections?</p> <p>What influences the outcome of infection?</p> <p>2. Compare and contrast the key properties of bacteria as distinct from eukaryotic cells.</p> <p>3. Explain the significance of the Gra and acid fast stains for the classificati and detection of bacteria.</p> <p>4. Explain the terms pathogen and no pathogen.</p> <p>5. Provide a brief description of speci bacteria to include their classification and their disease associations.</p> <p>6. Outline the biochemical and genet basis of bacterial susceptibility and resistance to antibiotics.</p> <p>7. Explain basic features concerning epidemiology of infection by understanding:</p> <ul style="list-style-type: none"> • The different habitat that m occupied by the microbes • The term reservoir, source, mode of transmission in the context of infection • The different pattern of association that microbes n form with human leading to transition, colonization, infection and infective dise • The term carriage, normal f (microbiota) and commens 	<p>1- Viruses</p> <p>2-Bugs in the system</p>		
11		<p>1-Haemopoiesis: how the cel components of the blood are derived stem cells.</p> <p>2-Contrast the potential of white b cells to mobilise, divide and transf with that of cells derived from d organs of the body.</p> <p>3-Describe the structure and functio the following: erythrocytes and retic cells lymphocytes monod granulocytes or polymorphonu leucocytes (i.e. neutrophils, basop eosinophils) platelets.</p>	<p>1-Blood cells & Hemopoiesis</p> <p>2- Innate and adaptive immunity</p>		

		1-The cellular and humoral components of the innate and adaptive immune systems. 2-The main differences between innate and adaptive immune response 3-Examples of the cooperation interdependence of the innate adaptive immune systems.			
12		Practical Slide Show	Practical Slide Show		

46. Course Evaluation

1.daily exams including Quizzes

2.Semester examinations during half term and at the end of the academic year

47. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Work book of Tissue of the Body module
Main references (sources)	1-Histology Textbooks 'Basic Histology', Junqueira 2-"Histology: A Text and Atlas" by Michael H. Ross, Wojciech Pawlina, and Todd A. Barnash. 3-"Color Atlas of Histology" by Leslie P. Gartner and James L. Hiatt.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

16. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Dr.Farqad Majeed	Bachelor of Medical Microbiology	Medical Fungi			staff	
Dr.Hazim Talib	Bachelor of Medical Microbiology	Medical Microbiology			staff	
Dr.Ban M. Saleh	Bachelor of Medical Microbiology	Bacteriology			staff	

Dr.Faleh Waheed	Bachelor of General Medicine and Surgery	Orthopedic Surgery			staff	
Dr. Ihsan Mardan	Bachelor of General Medicine and Surgery	Pathology / Heamatology			staff	
Dr. Shant Antraneek	Bachelor of Medical Microbiology	Medical Microbiology			staff	
Dr.Safa Asaad	Bachelor of General Medicine and Surgery	Histopathology				Lecturer
Dr. Ilham M. Jwaad	Bachelor of General Medicine and Surgery	Immunity				Lecturer
Dr. Eman Abd AlWahab	Bachelor of General Medicine and Surgery	Histopathology				Lecturer
Dr. Hanadi Ashoor	Bachelor of General Medicine and Surgery	Histopathology				Lecturer
Dr. Ansam Munadhil	Bachelor of General Medicine and Surgery	Human Physiology				Lecturer
Dr. Muntaha Abd AlHadi	Bachelor of General Medicine and Surgery	Dermatology				Lecturer
Dr. Ghada Latif	Bachelor of General Medicine and Surgery	Dermatology				Lecturer
Dr. Raad Chasib	Bachelor of General Medicine and Surgery	Orthopedic Surgery				Lecturer

4. Expected learning outcomes of the program	
Knowledge	
1. Graduating doctors with full knowledge of histological diseases and comparing them with the healthy tissue of the human body. 2. Identify the diseases of different body tissues by studying the structure and function of each tissue of the body.	Learning Outcomes Statement 1
Skills	
1 – The ability to take biopsy from the body of various kinds. 2- The ability to conduct strategies of embedding and dyeing tissue biopsy. 3- The ability to examine the prepared samples using various light and electronic microscopes.	Learning Outcomes Statement 2
1- Graduating scientific doctors and scientists who carry humanity as the basis for their work. 2- Doctors who know exactly how to deal psychologically and morally with their patients. 3- Doctors keep the secrets of their patients completely 4- Doctors who work in a team do not refrain from cooperating with each other because they have learned to work collectively.	Learning Outcomes Statement 3

Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

Course Description Form

First stage

48.	Course Name:		
		Clinical problem solving I	
49.	Course Code:		
		CPS 1	
50.	Semester / Year:		
		Semester	
51.	Description Preparation Date:		
		27th .March of 2025	
52.Available Attendance Forms:			
		In person	
53.Number of Credit Hours (Total) / Number of Units (Total)			
		60hrs. (30 hrs. as lectures , 30hrs.as small group)/ 4 credit each 15 l equal 1 unit	
54.	Course administrator's name (mention all, if more than one name)		
Name: Halah Muzahim			
Email: halah.mohammed@uobasra.edu.iq			
55.	Course Objectives		
The purpose of this module is to help you begin to think like a doctor, to develop the skills to retain a large amount of information, and to focus that information upon the solution of patients' problems			
56.	Teaching and Learning Strategies		
Strategy	Integrative teaching in form of small groups and team based learning		
57. Learning and Teaching Resources			
Required textbooks (curricular books if any)		no certain textbooks . students are free to use different resources like textbooks ,websites in addition to #other modules resources	
Main references (sources)			

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

17. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Prof. Ass. dr.Jawad Ramadhan	M.B.CH .B	General surgeon			Staff	
Prof.Ass.dr. maimi kadhum	M.B.CH .B	Pediatrician			Staff	Lecturer
Dr.sadiq kalaf	M.B.CH .B	Lab .hematologist				Lecturer
Dr.halah Muzahim	M.B.CH .B	Family physician				Lecturer
Dr.rasha kahtan	M.B.CH .B	Family physician				Lecturer
Dr.omar noaman	M.B.CH .B	Family physician				Lecturer
Dr.fatima khalid	M.B.CH .B	Family physician				Lecturer
Saja Dhiaa	M.B.CH .B	Histopathologist				Lecturer

5. Expected learning outcomes of the program

Knowledge

Learning Outcomes 1

Doctors who know disease etiologies
And able to build a concept map for every medical condition faced them

Skills

Learning Outcomes 2

- explain how clinical problem solving is learned during medical education

	<ul style="list-style-type: none"> • construct ‘concept maps’ related to clinical presentations or conditions, which enable you to link information and ideas into multiple contexts • identify the important questions which may be asked about any clinical presentation or condition • establish an intellectual process that enables students to identify and catalogue as the medical course progresses information relevant to individual clinical presentations or conditions • build mental structures which allow to collect information systematically from patients by taking a history from them, conducting a focussed examination and initiating appropriate investigations • audit effectively skills in literacy, numeracy, and information handling, to identify and remedy any deficiencies
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Learning Outcomes 4	To make a professional doctors know how to treat patients with dignity and humanity .
Learning Outcomes 5	Learning Outcomes Statement 5

Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

Course structure –10					
Week	hours	Learning outcome	Unit or subject name	Learning method	Assessment method
.1	3.5	describe the types of information that may be collected from a patient <ul style="list-style-type: none"> • define the concept of 'clinical presentation' and 'diagnosis' • describe how to use a 'concept map' to link relevant material to a diagnosis • describe the process of 'encapsulation' of basic science in its application to clinical medicine • describe the format of questions used in assessments at Leicester Medical School 	Module introduction Shortness of breath concept map	Integrative learning	Team based learning
.2	3.5	identify strengths and weaknesses in literacy and produce an action plan to address weaknesses	Shortness of breath Concept map and literacy skills		
.3	3.5	identify and map in a logical way the topics relevant to the understanding, diagnosis and management of cystic fibrosis <ul style="list-style-type: none"> • identify detailed information both from concurrent modules in semester 1 and from previous study to populate your map 	Cystic fibrosis		
.4	3.5		Cystic fibrosis		
.5	3.5	<ul style="list-style-type: none"> • identify a map in the logical way the topics relevant to the understanding, diagnosis and management of sickle cell disease • identify detailed information both from concurrent modules in semester 1 and from previous study to populate your map 	Sickle cell disease		

.6	3.5		Sickle cell disease		
.7	3.5	<p>identify and map in the logical way the topics relevant to the understanding, diagnosis and management of falls</p> <ul style="list-style-type: none"> • identify detailed information both from concurrent modules in semester 1 and from previous study to populate your map 	Fall		
.8	3.5	<ul style="list-style-type: none"> • understand where to look for different types of information, in particular current and reliable research evidence in support of evidence based medicine • devise an effective search strategy • identify appropriate and relevant resources • evaluate the reliability of information resources 	Fall and internet search		
.9	3.5	<p>.identify and map in a logical way the topics relevant to the understanding , diagnosis and management of tuberculosis.</p> <p>.identify detailed information both from concurrent modules in semester 1 and from previous study to populate your map.</p>	Tuberculosis		
.10	3.5		Tuberculosis		
.11	3.5	<p>. identify and map in the logical way the topics relevant to the understanding, diagnosis and management of a patient who reports feeling “tired all the time”</p> <ul style="list-style-type: none"> • identify detailed information both from concurrent modules in semester 1 and from previous study to populate your map • be able to construct and analyse questions of the type used in ESA assessments 	Tired all the time		
12	3.5		Tired all the time		

Course Description Form

First stage

58.	Course Name:	
		Computer Science
59.	Course Code:	
60.	Semester / Year:	
		Second Semester
61.	Description Preparation Date:	
		14/ 2 / 2025
62.	Available Attendance Forms:	
		Attendance only
63.	Number of Credit Hours (Total) / Number of Units (Total)	
		<ul style="list-style-type: none"> 60 hours per semester (30 hours of theoretical lectures and 30 hours of Lab sessions).
64.	Course administrator's name (mention all, if more than one name)	
		Name: Assist Prof Dr.Waleed Noori Hussein Email: waleed.hussein@uobasrah.edu.iq
65.	Course Objectives	
		Course Objectives <ul style="list-style-type: none"> Understand the fundamentals of computer networks and information security identifying different types of networks, their components, and associated security challenges. Recognize the concepts of electronic banking and e-commerce and their applications in daily life, such as ATMs, online banking, and mobile banking services. Develop troubleshooting skills to diagnose and resolve common problems computer hardware and software. Introduce artificial intelligence (AI) in terms of its definition, history, methods, and ethical considerations. Explain the role of AI in modern smartphones, including virtual assistants, instant translation, and adaptive learning features.

- Explore AI applications and tools in medicine, education, marketing, transportation and finance.
- Strengthen the ability to connect theoretical concepts with practical applications through hands-on sessions accompanying the lectures.

66. Teaching and Learning Strategies

Strategy

1. Lectures (Theoretical Sessions):

- Present basic concepts in a simplified and structured manner using presentations and the whiteboard.
- Relate theories to real-world examples and practical applications.

2. Practical Sessions:

- Train students in the laboratory on networks and information security.
- Provide hands-on practice in device maintenance and troubleshooting.
- Conduct direct experiments on smartphones to demonstrate AI applications.

3. Interactive Learning:

- Engage students in classroom discussions and small group debates to solve real-life problems.
- Conduct brainstorming sessions on the ethical challenges of AI usage.

4. Problem-Based Learning (PBL):

- Present real-world scenarios related to network issues or software malfunctions for students to analyze and propose solutions.

5. Presentations & Mini-Projects:

- Assign students to present specific topics in e-commerce or AI applications.

6. Self-Learning:

- Encourage students to explore modern electronic resources.
- Assign additional readings and educational video materials.

7. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1+2	Identify the concept of networks, their types, and components	Security and Networking (1)	Security and Networking (1)	Quiz + Practical Activity
2	1+2	Understand the fundamentals of network security and threats	Security and Networking (2)	Lecture + Lab	Practical Exercise + Short Questions
3	1+2	Recognize the concepts of	E-Commerce	Lecture + Case Study	Short Report +

		electronic banking		+ Application	Class Participation
4	1+2	Develop the ability to identify common computer problems	Computer Troubleshooting (1)	Lecture + Lab	Practical Evaluation
5	1+2	Master techniques and tools of troubleshooting	Computer Troubleshooting (2)	Lecture + Practical Application	Practical Assignment + Practical Exam
6	1+2	Understand the definition, history, and methods of AI	Introduction to AI (1)	Lecture + Discussion	Short Quiz
7	1+2	Recognize the features, benefits, and challenges of AI	Introduction to AI (2)	Lecture + Discussion + Group Activity	Written Assignment + Class Participation
8	1+2	Apply AI in smartphones (virtual assistants)	Role of AI in Smartphones (1)	Lecture + Hands-on Experience on Smartphones	Practical Evaluation

9	1+2	Explore adaptive learning and instant translation services	Role of AI in Smartphones (2)	Lecture + Practical Application	Practical Exam
10	1+2	Recognize AI applications in education and healthcare	AI Applications (1)	Lecture + Case Study	V
11	1+2	Understand AI applications in transportation, marketing, and advertising	AI Applications (2)	Lecture + Case Study	Written Assignment
12	1+2	Identify AI applications in finance, robotics, and automation	AI Applications (3)	Lecture + Practical Activity	Practical Evaluation + Short Quiz
13	1+2	Analyze the impact of AI on society and international relations	AI and Society	Lecture + Group Discussion	Class Participation + Report
14	1+2	Discuss ethical challenges, privacy issues, and the impact of AI on the labor market	Ethical Challenges in AI	Lecture + Case Study + Discussion	Written Assignment + Class Discussion
15	1+2	Explore future trends in AI and recent research	The Future of AI	Lecture + Short Research + Presentation	Mini Project + Oral Evaluation

8. Course Evaluation					
Assignments and Class Activities: 5 marks					
Practical Assessment (Lab / Hands-on Activities): 10 marks					
Midterm Exam: 15 marks					
9. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			Graham Brown, David Watson, Cambridge IGCSE Information and Communication Technology, 3rd Edition (2020).		
Main references (sources)			Alan Evans, Kendall Martin, Mary Anne Poatsy, Technology in Action Complete, 16th Edition (2020).		
Recommended books and references (scientific journals, reports...)			<ul style="list-style-type: none"> • Ahmed Banafa, Introduction to Artificial Intelligence (AI), 1st Edition (2024). • Curtis Frye & Joan Lambert, Microsoft Office 2019 Step by Step, 1st Edition. • Book in Arabic: <i>Introduction to Computer Science: Research in Computing for Schools</i> (2016). • Book in Arabic: <i>Introduction to Artificial Intelligence</i>, Dr. Adel Abdelnour (2005). 		
Electronic References, Websites			Cisco Networking Academy		

	Khan Academy – Computer Science & AI – Simplified tutorials in computer science and artificial intelligence
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Course Description Form

Second stage

67. Course Name:	
musculoskeletal module	
68. Course Code:	
69. Semester / Year:	
S3\ 2 nd year	
70. Description Preparation Date:	
30\4\2025	
71. Available Attendance Forms:	
72. Number of Credit Hours (Total) / Number of Units (Total)	
48 hours for the course/ 12 sessions	
73. Course administrator's name (mention all, if more than one name)	
Name: Raed Jasim Chasib Email: alraed77@yahoo. Com	
74. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> The students should acquire a working knowledge and clinical understanding of the principles and concepts applicable to the musculoskeletal system in general Through study of the structure and function of the upper limb, the lower limb and the vertebral column Equip the students with the knowledge for successful diagnosis and treatment of musculoskeletal diseases
75. Teaching and Learning Strategies	
Strategy	This will be achieved in class and through private study by: <ul style="list-style-type: none"> Lectures and clinical presentation

- Dissection and prosection study
- Surface and living anatomy
- Clinical examination skills.

76. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Knowing the structure and terms of musculoskeletal system How to manage clinically the musculoskeletal diseases	1. Module Introduction. 2. The Skeletal System: Bones & joints 3. Anatomical Medical Terminology 4. Clinical Overview and Examination of the Musculoskeletal System	Lectures Small group session Clinical skill foundation course session	Personal Active contribution Quiz
2	4	Studying the skeletal muscles Bones of upper limbs Brachial plexus	1.Skeletal muscle: Structure, Morphology & Mechanics 2.Osteology & Radiology of Upper Limb 3.Tutorial: Brachial Plexus & Axilla	Lectures SMS CSFC Session	Personal Active contribution Quiz
3	4	Study of the shoulder and elbow joints	1.Functional & Applied Anatomy of Shoulder joint. 2.Elbow Joint & Joints of the Forearm.	Lectures SMS CSFC Session	Personal Active contribution Quiz
4	4	Study the anatomy of upper limb	Dissection 1: 1.Introduction to Dissection, Pectoral Region, & The Axilla, 2.Front & Back of Arm 3.Bones of shoulder and humerus 4.Front & Back of the forearm and hand 5.Bones: forearm bones, hand and wrist bones	Anatomy laboratory	Personal Active contribution Quiz
5	4	Study the nerves of upper and lower limbs with skills to diagnose their injury	1.Dermatomes, Myotomes& Segmental Innervation of UL & LL 2.Development of the Limbs	Lectures SMS CSFC Session	Written examination

		Studying limbs development	3. Tutorial: Investigating Nerve Injuries in the Upper Limbs		
6	4	Study the diseases and injuries of joints	1.Pathology of Joints. 2.Injuries of Joints: Dislocations, Fractures & Sprains	Lectures SMS CSFC Session	Personal Active contribution Quiz
7	4	Studying the vertebral column Bones of lower limb Changes of MSK with aging	1.Vertebra Column& Common Injuries 2.Osteology & Radiology of Lower Limbs 3.physiological effects of aging	Lectures SMS CSFC Session	Personal Active contribution Quiz
8	4	Study the hip joint Metabolic diseases of MSK system	1.Hip Joint 2.Dysfunction of MSK System: osteoporosis, rickets & osteomalacia	Lectures SMS CSFC Session	Personal Active contribution Quiz
9	4	Study the knee joint Fractures of limbs bones Nerves injury in lower limbs	1.Knee Joint 2.Common Fractures of the UL & LL; Causes , Repair & Delayed Healing 3.Tutorial: Nerve injuries in the lower limb	Lectures SMS CSFC Session	Personal Active contribution Quiz
10	4	Study the ankle joint Arteries and veins of lower limbs Muscles of lower limbs	1.The Ankle joint & joints of the Foot. 2. Major arteries & veins of the lower limbs. 3.Tutorial: Muscles of the lower limb in walking & Gait Abnormalities	Lectures SMS CSFC Session	Personal Active contribution Quiz
11	4	Study of the anatomy of spine and lower limbs	Dissection 2: 1.Back of trunk+ vertebral column+ 2.gluteal region Lower limb	Anatomy laboratory	Personal Active contribution Quiz
12	3		End Module Examination		Written examination

1. Course Evaluation

Daily contribution, quizzes, midcourse written exam, end module examination

2. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Work book of musculoskeletal module
Main references (sources)	1. Clinically oriented anatomy by MOORE 2. APLEYS AND SALMONE System of orthopaedic and trauma
Recommended books and references (scientific journals, reports...)	The orthopaedic clinical examination Reider
Electronic References, Websites	

18. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Dr. Raed Jasim Chasib	Orthopaedic surgery					yes
Dr. Falih Waheed Hashim	Orthopaedic surgery				yes	
Dr. Rafid Mousa Jaafer	Orthopaedic surgery					yes
Dr. Mohammedbaqir Abbas	Orthopaedic surgery					yes
Dr. Ahmed Ibrahim Habib	Orthopaedic surgery					yes
Dr. Khalil Ibrahim Sadiq	Orthopaedic surgery					yes

Dr. Waleed Jwad Mahdee	Orthopaedic surgery					yes
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6. Expected learning outcomes of the program	
Knowledge	
1	Knowing the structure and function of musculoskeletal system
2	Diagnose and treat diseases of musculoskeletal system
Skills	
1	Diagnosis and treatment of musculoskeletal system
Ethics	
1	Graduation of doctors whose carrying a scientific and humanitarian basics as a base for their work
2	Doctors know how to deal with their patient psychologically and ethically
3	Doctor whom save their patients informations completely
4	Doctors working as a team

Professional Development
Mentoring new faculty members
Working hardly to involve a multiple specialty teachers involved with the musculoskeletal
Professional development of faculty members
Faculty meeting before and after each session to discuss the scientific material and how to improve the quality of its presentation to the students

Course Description Form

Second stage

77.	Course Name:	
Mechanism of Disease		
78.	Course Code:	
MoD		
79.	Semester / Year:	
Semester		
80.	Description Preparation Date:	
14/2/2025		
81.	Available Attendance Forms:	
Live attendance		
82.	Number of Credit Hours (Total) / Number of Units (Total)	
4 credits / 60 hours		
83.	Course administrator's name (mention all, if more than one name)	
Name: Dr Sadiq K. Ali/Dr Ihsan M. Humod		
Email:		
84.	Course Objectives	
Course Objectives <ul style="list-style-type: none"> 1- Graduating skilled medical students and preparing them to be professional doctors who knowledgeable about diseases and their causes. 2- Complete knowledge of the mechanism of disease occurrence 3- Complete knowledge of methods for diagnosing diseases 4- Combining modern scientific research with what is given in lectures 		
85.	Teaching and Learning Strategies	
Strategy <p>Since the founding of the college in 2017-2018, the Pathology Branch at Al-Zahraa College of Medicine has used an integrative education style of lectures and discussions in small groups. Education is based on understanding the content without memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is repeated for every week for a period of 15 weeks, including a week for review and evaluation examination.</p> <ul style="list-style-type: none"> - Brainstorming education strategy - Education strategy notes series 		

86. Course Structure

We ek	Hour s	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	1) The causes of cell injury and death • Hypoxia • Toxins • Heat • Cold • Trauma • Radiation • Micro-organisms • Immune mechanisms 2) Definitions of cell death • Necrosis • Apoptosis 3) Cellular events associated with necrosis 4) Cellular events associated with apoptosis 5) Structural changes of necrosis • Macroscopic • Microscopic • Electron microscopic 6) Structural changes of apoptosis • Microscopic • Electron microscopic 7) Mechanisms of cell injury • Metabolic derangements, eg cyanide • Inadequate production of reactive intermediates, eg glutathione • Production of free radicals • Alterations in calcium homeostasis • Depletion of mitochondrial nucleotides and ATP 8) Histological and biochemical consequences of: • Chronic, excessive alcohol intake • Aspirin and paracetamol overdose	Lecture 1: Introduction to the Unit Lecture 2: Cell death	Integrated education style, represented by lectures and discussions in small groups. Education is based on understanding the content without memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period of 15 weeks, including a week for review and evaluation exam	Team-Based Learning (TBL) is examined weekly as a way to improve learning outcomes by promoting discussion among students
2	4	1) Major causes and biological purposes of acute inflammation 2) Characteristic macroscopic features of acute inflammation 3) Characteristic microscopic features of acute inflammation: • Oedema • Vasodilatation • Neutrophil margination and migration 4) How the microscopic changes relate to the macroscopic ones 5) How the microscopic changes are brought about, including formation of an exudate and brief reference to some major chemical mediators 6) Why the changes constitute an effective response to injury • Delivery of antibodies, nutrients, oxygen, cells etc. • Dilution of toxins • Maintenance of temperature • Stimulation of immune response • Destruction and removal of dead or foreign material 7) What neutrophils do, and (briefly) how they do it 8) Systemic consequences of acute inflammation 9) Resolution of acute inflammation 10) Some possible complications of acute inflammation: • Damage to normal tissue • Obstruction of tubes, compression of vital structures • Systemic effects, shock 11) How drugs may modify acute inflammation 12) A few clinical examples of acute inflammation:	Lecture 3: Acute inflammation part I Lecture 4: Acute inflammation part II		

		<ul style="list-style-type: none"> • Lobar pneumonia • Acute appendicitis <p>13) One inherited disorder of the acute inflammatory process</p>			
3	4	<p>1) The cells principally involved in chronic inflammation, and the role of each</p> <p>2) The central role of the macrophage, and its many functions</p> <p>3) Situations in which chronic inflammation typically arises</p> <p>4) Possible complications of chronic inflammation</p> <p>5) Some major clinical examples of chronic inflammation, how they arise, the complications which ensue and the treatment which is available</p> <p>6) Granulomatous inflammation and other special types of chronic inflammation:</p> <ul style="list-style-type: none"> • Tuberculosis and leprosy • Sarcoidosis • Syphilis • Foreign body reaction. 	<p>Lecture 5: Chronic inflammation part I</p> <p>Lecture 6: Chronic inflammation part II</p>		
4	4	<p>1) Understand the terms</p> <ul style="list-style-type: none"> • Resolution • Fibrous repair • Regeneration • Labile, stable and permanent tissues <p>2) Be able to describe and discuss:</p> <ul style="list-style-type: none"> • Healing of a clean incised skin wound • Healing of a large skin defect • Control mechanisms in the above processes • Structure and function of type I collagen • Factors influencing the efficacy of healing and repair <p>3) Be able to describe and discuss special aspects of healing and repair in various tissues including:</p> <ul style="list-style-type: none"> • Cardiac muscle • Bone • Liver • Peripheral nerve 	<p>Lecture 7: Healing and Repair I</p> <p>Lecture 8: Healing and Repair II</p>		
5	4	<p>1) Haemostasis</p> <ul style="list-style-type: none"> • Definition • Balance of coagulant and anti-coagulant factors • Intrinsic and extrinsic pathways • Role of platelets • Fibrinolytic system <p>2) Thrombosis</p> <ul style="list-style-type: none"> • Definition • Predisposing factors • Effects of thrombosis • Outcomes <p>3) Embolism</p> <ul style="list-style-type: none"> • Definition • Thromboembolism particularly DVT and pulmonary embolism • Other types of embolism <p>4) Anti-coagulant therapy</p> <ul style="list-style-type: none"> • Heparin • Warfarin • Prophylaxis in general <p>5) Other disorders of coagulation</p> <ul style="list-style-type: none"> • Haemophilia • Disseminated intravascular coagulation • Thrombocytopenia • Thrombophilia 	<p>Lecture 9: Hemostasis and Thrombosis I</p> <p>Lecture 10: Hemostasis and Thrombosis II</p>		
6	4	<p>1) Atheroma, Atherosclerosis, Arteriosclerosis</p> <ul style="list-style-type: none"> • Definitions • Cellular events leading to the formation of atherosclerotic lesions • Morphological appearance macroscopic microscopic <p>2) Effects of severe atherosclerosis at specific anatomical sites.</p> <p>3) The mechanisms of atherogenesis</p> <ul style="list-style-type: none"> • Role of growth factors and cytokines eg platelet derived growth factor (PDGF) • 'The response to injury hypothesis' • Role of the dyslipidaemias • Role of free radical mediated events, and particularly lipid 	<p>Lecture 11: Hemostasis and Thrombosis III</p> <p>Lecture 12: Hemostasis and Thrombosis IV</p>		
7	4		<p>Lecture 13: Atheroma I</p> <p>Lecture 14: Atheroma II</p>		

		<ul style="list-style-type: none"> •oxidation hypothesis •Other proposed mechanisms: 'The encrustation hypothesis' 'The monoclonal hypothesis' etc. 4)The epidemiology of coronary heart disease •Description of the possible role of coronary risk factors in atherogenesis •Genetic, geographical and ethnic susceptibility. •Risk factors smoking hypertension impaired glucose tolerance •Risk markers apolipoprotein E genotype angiotensin converting enzyme genetic polymorphisms • Prevention and intervention 			
8	4	1) The Cell Cycle <ul style="list-style-type: none"> • Different phases and their control • Labile, stable and permanent cells 2) Control of Cellular Growth <ul style="list-style-type: none"> •Inhibition/Stimulation •Growth factors •Vascular and metabolic factors •Balance of cell proliferation and cell death 3) Hypertrophy <ul style="list-style-type: none"> •Definition •Cell types involved •Physiological and pathological causes 4)Hyperplasia •Definition <ul style="list-style-type: none"> • Cells/organs concerned • Physiological causes •Effects 5)Atrophy <ul style="list-style-type: none"> • Definition •Physiological and pathological causes • Effects 6)Hypoplasia <ul style="list-style-type: none"> •Definition •Relationship to atrophy •Failure of development 7) Metaplasia <ul style="list-style-type: none"> •Definition •Cells concerned •Causes and effects 	Lecture 15: Cellular adaptation I Lecture 16: Cellular adaptation II		
9	4	1)Define neoplasia. 2)Describe the alterations to DNA which cause neoplasia. 3)Describe clonality of neoplasms. 4)Describe the alterations in growth control <ul style="list-style-type: none"> •Increased cell proliferation •Decreased cell death •Longer cellular lifespan •Altered growth factors/hormones and receptors •Altered cell-cell interactions 5) Describe and compare benign and malignant tumours <ul style="list-style-type: none"> • Growth characteristics • Cytological features 6) Define dysplasia. 7) Distinguish between in-situ and invasive malignancy. 8)Describe the basic histological types of benign and malignant neoplasms <ul style="list-style-type: none"> • Adenoma • Papilloma • Carcinoma adeno, squamous, transitional • Benign mesenchymal tumors eg leiomyoma, lipoma • Sarcomas eg leiomyosarcoma • Gliomas • Lymphomas • Germ cell tumors •Tumors of the white cells leukaemia myeloma 	Lecture 17: Neoplasia I Lecture 18: Neoplasia II		
10	4	1) Define invasion and metastasis. 2) Describe the mechanisms facilitating invasion and metastasis <ul style="list-style-type: none"> • Altered cell - cell interactions • Altered cell - stromal interactions • Secretion of proteases • Spread and growth at distant sites 	Lecture 19: Neoplasia III Lecture 20: Neoplasia IV		

		3) Describe the routes and common sites of metastasis • Lymphatic • Blood e.g. lung, brain, bone, liver • Coelomic 4) Describe the local effects of benign and malignant neoplasms • Pressure • Invasion • Ulceration • Obstruction 5) Describe the systemic effects of neoplasms • Endocrine • Haematological • Neurological • Dermatological			
11	4	1) Inherited susceptibility to the development of tumors • Xeroderma pigmentosum • Ataxia telangiectasia 2) The inheritance of certain tumors • Familial adenomatous polyposis • Breast cancer • Retinoblastoma 3) The functions of oncogenes and tumor suppressor genes and the changes which occur in neoplasia. 4) The role of certain oncogenes • ras • c-myc • c-erbB-2 (HER-2) 5) The role of certain tumor suppressor genes • retinoblastoma • p53 6) The stages in carcinogenesis • Initiation • Promotion carcinoid tumor 5-hydroxytryptamine 7) Agents who can result in the development of tumors and their mechanisms of action. • Radiation Ultraviolet ionizing • Chemicals Polycyclic hydrocarbons aromatic amines nitrosamines • Viruses Epstein Barr hepatitis B	Lecture 21: Neoplasia V Lecture 22: Neoplasia VI		
12	4	Staging of malignant tumors Rectum, Breast, Prostate, Bladder Hodgkin's Disease Grading of malignant tumors Squamous cell carcinomas, Breast cancer, Colon cancer The biological basis for the use of different cancer treatments, Radiotherapy, Chemotherapy Hormone Therapy, Newer agents eg. Herceptin ® The use of tumour markers in diagnosis and monitoring of disease Carcinoembryonic antigen Human chorionic gonadotrophin α fetoprotein, The value of screening Cervix, Breast	Lecture 23: Neoplasia VII Lecture 24: Neoplasia VIII		

87. 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

88. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Mechanism of Disease module workbook Leicester University, College of Medicine.
Main references (sources)	Robbins basic pathology, kumar , abbas fausto and mitchell
Recommended books and references (scientific journals, reports...)	Muir's Textbook of Pathology MacSween and Whaley General and Systemic Pathology Underwood
Electronic References, Websites	

19. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Dr Ihsan Mardan	MBChC	Hepatopathology			√	
Dr Sadiq Khalaf	MBChC	Hepatopathology				√
Dr Wasan Mansour	MBChC	Histopathology				√
Dr Ghada Lateef	MBChC	Dermatology				√
Dr Iman AbdulHady	MBChC	Histopathology				√
Dr Safa Asaad	MBChC	Histopathology				√
Dr Saja Dheaa	MBChC	Histopathology				√
Dr Hnade Aashor	MBChC	Histopathology				√

7. Expected learning outcomes of the program

Knowledge

The aim of the module is to introduce you to basic pathological processes in order to prepare you for the other basic modules in the first phase of the course dedicated to the various body systems. This booklet provides the information you will need to follow the Disease Mechanisms module. it contains:

- Introduction to the unit structure
- A description of the organization of each of the morning sessions
- Descriptions of the self-study that will be required
- Information on appropriate textbooks
- Details of the personnel who will deliver the unit

- Details of the evaluation system
- Objectives and other information for each session of the unit

We hope that you will learn a lot during the unit and that you will find it interesting and enjoyable.

Skills

B1 - The ability to identify symptoms and pathological effects and link them to the patient's medical history.

B2 - The ability to determine the type of samples to be examined to confirm the pathogen or immune defect.

B3 - The ability to examine pathological samples with examination devices that diagnose the disease.

Ethics

C1- Graduating scientific doctors and scientists who hold humanity as the basis for their work.

C2- Doctors know exactly how to deal psychologically and ethically with their patients.

C3-Doctors completely protect their patients' secrets

C4- Doctors work as a team and do not refrain from cooperating with each other because they have learned to work collectively

Course Description Form

Second stage

89.	Course Name:
Cardiovascular module	
90.	Course Code:
CVS	
91.	Semester / Year:
S3 Second year	
92.	Description Preparation Date:
17/3/2025	
93. Available Attendance Forms:	
In presence	
94. Number of Credit Hours (Total) / Number of Units (Total)	
60 hours for course (Lectures: 30 hours, Small groups: 30 hours)	
95.	Course administrator's name (mention all, if more than one name)
Name: Firas Rasheed Sael	
Email: firas.alobaidi@uobasrah.edu.iq	
96.	Course Objectives
Course Objectives	<ol style="list-style-type: none"> 1- To understand the normal structure and function of the cardiovascular system, how that is altered by disease, how cardiovascular function is assessed, and how, in principle, cardiovascular disorders are managed. 2- The cardiovascular conditions will continue into Phase 2 of the course in the 'Cardio-Respiratory' Block, and in the 'Acute Care' block and, as cardiovascular disease is common you will also meet patients with cardiovascular problems in all clinical situations. 3- Integrating between the latest developments in the health sciences and what is given in lectures for medical students.
97.	Teaching and Learning Strategies
Strategy	<p>The style that used by Al-Zahraa College of Medicine since the establishment of the integrative education system includes lectures and discussions in small groups.</p> <p>Learning methods:</p> <ul style="list-style-type: none"> - Large group students - Team based learning - dissecting room - Teaching programs and symposiums - Self-study groups
98. Course Evaluation	

It consists from:

- Weekly test individual tests (IRT) and team based test (TRT) as a part of the team based learning

-The assessment at the end of the semester

The exam will be integrative, meaning it includes all modules in the semester for the purpose of linking them together

Provides compatibility between module requirements and integration objectives

The exam is divided into two days: the first (paper I) consists of essay questions, and the second (Paper II) contains MCQs.

The final grade consists of two paper grades

There is a module called Personal and Professional Development Program (PPDP) for evaluation the level of student and shows the progress of students in their academic study.

99. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Cardiovascular system module workbook
Main references (sources)	<p>The recommended textbook is:</p> <ul style="list-style-type: none"> Ralston, S. H., Penman, I. D., Strachan, M. W. J., & Hobson, R. (Eds.). (2018). <i>Davidson's principles and practice of medicine</i> (23rd ed.). Elsevier Health Sciences.
Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none"> Macleod's Clinical Examination 14th Edition by J. Alastair Innes BSc PhD FRCP Ed(Editor), Anna R Dover PhD FRCP(Ed) (Editor)
Electronic References, Websites	Special Google classroom for the module

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

100. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assistant prof Firas Rasheed Sael	Medicine	Cardiology			staff	
Lecturer Ahmed Bader	Physiology	Physiology			staff	
Lecturer Mohammed Adil	Medicine	Medicine			staff	
Lecturer Qutaiba Muslim	Medicine	hematology			staff	
Lecturer Mustafa Emd	Medicine	rheumatology			staff	
Lecturer Mazin Hazaa	Medicine	Cardiology			staff	
Assistant prof Hadeel Salman	Physiology	Physiology			staff	

8. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	Knowledge and understanding By the end of the unit student should be able to: Describe the structure and the cardiovascular function
Skills	
Learning Outcomes 2	Students are able to recognise common conditions affecting the cardiovascular system.
Learning Outcomes 3	The students are able to identify clinical symptoms and pathological effects and link them to the medical history of patient.
Ethics	
Learning Outcomes 4	Graduating scientific doctors, they know how to deal psychologically and ethically with patients
Learning Outcomes 5	Doctors work as a team and cooperate between them. They have learned to work collectively

101. Course Structure			
Week	Hours	Required Learning Outcomes	Unit or subject name
1	4	<p>Lecture 1:</p> <ul style="list-style-type: none"> describe the factors influencing the exchange of substances between the blood in capillaries and the surrounding tissues describe the critical importance of adequate blood flow for the maintenance of capillary exchange list typical blood flows in ml/min/g tissue and ml/min/organ for major organs of the body, including the brain, kidneys, heart muscle, gut, skeletal muscle and skin describe the distribution of cardiac output over major organs of the body describe the major functional components of the circulation describe the distribution of blood volume over the major parts of the circulation <p>Lecture 2:</p> <ul style="list-style-type: none"> describe how blood vessels (arteries, arterioles, capillaries, venules and veins) are named. describe the structure of different types of blood vessels in relation to their function in supplying blood to and from the tissues of the body. 	<p>Lecture 1: Introduction to the Unit</p> <p>Lecture 2: Introduction to CVS anatomy</p> <p>Histology, blood vessels and heart tissue</p>
2	4	<p>Lecture 3:</p> <ul style="list-style-type: none"> Describe the formation and looping of the primitive heart tube Name the regions of the developing heart Describe in brief the development of the great vessels <p>Lecture 4</p> <ul style="list-style-type: none"> describe the position of the heart in situ and indicate the surface anatomy of the heart on a subject describe the structure and function of the pericardium and its relationship with the phrenic nerves 	<p>Lecture 3: Development of the heart</p> <p>Lecture 4: surface and radiological anatomy</p>

		<ul style="list-style-type: none"> • understand the problems associated with pericarditis and the accumulation of fluid in the pericardial sac • describe the major vessels entering and leaving the heart and the course of blood flow through the heart • describe the blood supply to the heart itself and be able to identify the right and left coronary arteries, their origins and major branches • describe the venous drainage of the heart and be able to identify the coronary sinus and great cardiac vein • identify the major arteries and veins in the body 		
3	4	Apply the theoretical knowledge of the anatomy of the cardiovascular system in the anatomy laboratory in a practical way by reviewing the available anatomical models	Lecture 5: Anatomy	lab
4		<ul style="list-style-type: none"> • describe the processes which generate the resting membrane potential of cardiac cells. • draw the changes in membrane potential of (i) ventricular cells (ii) pacemaker cells over the cardiac cycle. • describe the membrane permeability changes and ionic currents underlying the ventricular and pacemaker cell action potential. • describe in general terms, the processes of excitation - contraction coupling in ventricular myocardial cells. <ul style="list-style-type: none"> • describe the factors influencing the changes in intra cellular free calcium concentration of ventricular cells during the action potential. • describe the membrane potential changes in pacemaker cells associated with increases and decreases in heart rate. • describe the cellular mechanisms controlling heart rate in the normal heart and the role of the autonomic nervous system in this process. 	Lecture 6: cellular events in the heart Lecture 7: cellular events in the heart	I II
5		• describe the critical anatomical features of the autonomic nervous system, such as the existence of ganglia, and division into pre- and post-ganglionic neurones.	Lecture 8: Autonomic nervous system	ic

		<ul style="list-style-type: none"> • describe the key anatomical features of the sympathetic and parasympathetic branches of the autonomic nervous system, including where pre-ganglionic fibres leave the CNS, the location of ganglia and the relative length of the pre-and post-ganglionic fibres. • list the structures innervated by each of the sympathetic and parasympathetic systems, and in broad terms, the effect of the sympathetic or parasympathetic activity upon these structures. • name the usual chemical transmitters at the synapses between pre- and post-ganglionic neurones in each of the sympathetic and parasympathetic branches, and the type of receptors upon the post-ganglionic cell body. • name the usual chemical transmitter released from post-ganglionic neurones of the parasympathetic system, and state the class of receptor upon which it normally acts. • name the usual chemical transmitters released from post-ganglionic neurones of the sympathetic system and the types of receptor upon which it normally acts. • state in broad terms the distribution of different types of adrenoceptor around the body. • state the action of the sympathetic nervous system on blood vessels in different organs. • state the action of the sympathetic and parasympathetic system upon heart rate and force of ventricular contraction. 	
6		<p>Lecture 9: describe the basic structure of the heart, naming the chambers, valves, and main vessels</p> <ul style="list-style-type: none"> • describe in general terms the properties of cardiac muscle which allow the heart to operate as a pump • define the terms Systole and Diastole • describe how the organisation of the muscle in ventricular walls facilitates the pumping of blood • describe the main differences between the right and left heart • describe the sequence of pressure and volume changes in the left atrium and ventricle over a complete cardiac cycle in the normal individual 	<p>Lecture 9: The heart as a pump Lecture 10: pressure / flow in the cardiac system</p>

		<ul style="list-style-type: none"> • describe when in the cardiac cycle each valve in the heart opens and closes, and the pattern of flow through each valve • explain the origin of the 1st and 2nd heart sounds • given a diagram showing the pressure profile in the left atrium, left ventricle and aorta for a single cardiac cycle in a healthy adult, perform the following tasks: <ul style="list-style-type: none"> • label the pressure axes • label the time base (assuming a heart rate of 60 bpm) • indicate the points at which the mitral and aortic valves open and close • indicate the position of the 1st and 2nd heart sounds • draw the profile of pressure changes in the internal jugular vein, labelling the 3 component areas <p>Lecture 10:</p> <p>define the terms 'Systolic' and 'Diastolic' arterial pressure and 'Pulse Pressure'</p> <ul style="list-style-type: none"> • define the term 'Total Peripheral Resistance' • describe how the elastic nature of arteries acts to reduce arterial pressure fluctuation between systole and diastole • draw the typical arterial pressure wave form • describe the pulse wave • describe the role of arterioles as resistance vessels • define the terms vasoconstriction and vasodilatation • describe what is meant by 'vasomotor tone' and list the main factors which affect it • describe how 'vasodilator metabolites' modify vasomotor activity to permit local control of blood flow • describe reactive hyperaemia • describe autoregulation • define the terms 'central venous pressure' and 'venous return' 	
7		<p>Lecture 11:</p> <p>state the major differences between the properties of the systemic and pulmonary circulations.</p>	<p>Lecture 11: Special circulations</p> <p>Lecture 12:</p>

		<ul style="list-style-type: none"> • state the normal pressures in the pulmonary artery, pulmonary capillaries and pulmonary veins. • explain the concept of ventilation perfusion matching in the pulmonary circulation. • describe the forces which are involved in the formation of tissue fluid in the lungs and in the systemic circulation • describe the relationship between the mechanical work and oxygen demand of the myocardium. • describe the particular features of the coronary circulation. • describe the consequences of partial or total occlusion of coronary arteries. • describe the factors which influence blood flow through the brain. • describe in broad outline the factors which influence blood flow through skin and skeletal muscle <p>Lecture 12</p> <p>Describe the types of drugs used to treat patients with common cardiovascular disorders.</p> <ul style="list-style-type: none"> • Understand how some arrhythmias can arise. • Describe the classes of anti-arrhythmic drugs and the principles of their therapeutic use. • Describe the therapeutic uses of β-adrenoreceptor antagonists. • Define the term 'inotropic' drug and the circumstances under which these drugs can be used. • Describe how drugs can be used in the treatment of heart failure. • Understand the risk of thrombus formation with certain cardiovascular conditions and how to treat this. 	Action of drugs on the heart
8		Lecture 13:	Lecture 13: ECG Lecture 14: Analysis and interpretation of ECG

		<ul style="list-style-type: none"> • describe in general terms the pattern of spread of excitation over the normal heart from the SA node to the AV node to the ventricles • describe and draw a diagram of the electrical conducting system of the heart and describe how excitation normally spreads through the ventricular myocardium • describe the signal recorded by an extra cellular electrode placed near a myocardial cell during systole • be able to state rules governing the sign of the signal recorded by a positive recording electrode when depolarisation and repolarisation spreads towards and away from that electrode • describe the form of signal recorded by a single electrode 'viewing' the heart from the apex. Label the waves PQRS and identify the signals associated with atrial depolarisation, ventricular depolarisation, and ventricular repolarisation • describe how the QRS complex will change if the viewing electrode is moved around a circle with the heart at its centre • be able to place electrodes correctly to record from ECG leads I, II, III, aVR, aVL, aVF and the chest leads V1-6 • state the equivalent single electrode view of leads I, II, III, aVR, aVL and aVF • calculate the heart rate from a rhythm strip for a regular and irregular heart rhythm. <ul style="list-style-type: none"> • Lecture 14: <ul style="list-style-type: none"> identify the following abnormalities in ECG traces • ventricular ectopic beats • atrial fibrillation • ventricular fibrillation • types of heart block • describe in outline the ECG changes associated with <ul style="list-style-type: none"> • the acute phase of myocardial infarction • myocardial ischaemia during exercise 	
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9		<ul style="list-style-type: none"> • identify the common causes of chest pain • describe the risk factors for coronary atheroma • describe the pathophysiology of <ul style="list-style-type: none"> o angina, unstable angina and myocardial infarction and relate it to the clinical features & treatment of these conditions • describe the signs and symptoms of angina • describe the investigation of the patient with angina, including the principles of the exercise test • distinguish the characteristics of unstable angina from stable angina • describe the signs and symptoms of myocardial infarction • understand the concept of 'Acute Coronary Syndrome' and explain the difference between unstable angina, NSTEMI and STEMI • describe the investigations for myocardial infarction • describe the use of the ECG in <ul style="list-style-type: none"> o the diagnosis of MI o distinguishing STEMI from a NSTEMI o in identifying region of the heart affected from the particular groups of leads which show changes • describe the use of cardiac biomarkers (troponin and cardiac enzymes) in <ul style="list-style-type: none"> o the diagnosis of MI o distinguishing between NSTEMI & unstable angina in a patients with Acute Coronary Syndrome • describe the principles of the management of <ul style="list-style-type: none"> o of angina, including the use of some drugs in the treatment of angina o of acute myocardial infarction o management of unstable angina 	Lecture 15 & 16: Ischemic Heart diseases
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		<ul style="list-style-type: none"> • understand the use surgical treatments in coronary artery disease • describe the signs and symptoms of acute pericarditis 		
10		<p>define heart failure</p> <ul style="list-style-type: none"> • explain the pathophysiology of heart failure • be able to draw and explain the normal relationship between central venous pressure (or end diastolic pressure) and cardiac output and how that relationship alters with increasing severity of heart failure • describe the clinical characteristics of the principal types of heart failure, and the circumstances which lead to its development • describe the involvement of the renin-angiotensin-aldosterone system and the sympathetic nervous system in heart failure • explain the formation of normal tissue fluid and why oedema can develop in heart failure • identify targets for drug action to manipulate cardiac output • describe the principles involved in the general management of heart failure, and the categories of drugs used in its therapy. 	Lecture 17 and 18 failure	Hear
11		<p>Lecture 19:</p> <ul style="list-style-type: none"> • describe the essential characteristics of shock • describe the characteristics of hypovolaemic shock • describe the characteristics of cardiogenic shock • describe the characteristics of mechanical shock • describe the characteristics of anaphylactic shock • describe the characteristics of septic ('toxic') shock • describe the general feature of management of the various types of shock. 	<p>Lecture 19: shock</p> <p>Lecture 20: Congestital heart disease</p>	ital

		<p>Lecture 20: describe the frequency and types of congenital malformation of the heart and great vessels</p> <ul style="list-style-type: none"> • appreciate the types and frequency of ventricular septae defects • appreciate the types and frequency of atrial septae defects • understand the effects of a left to right shunt • understand the causes of congenital cyanotic heart defect • describe the functional importance of transposition of the great vessels • describe the functional importance of stenosis and atresia of the aorta and pulmonary valve • understand the significance of a patent ductus arteriosus • describe the effects of coarctation of the aorta 	
12			Lecture 21: Review of the system

Course Description Form

Second stage

102. Course Name:	
MODULE OF MEMBRANES AND RECEPTORS	
103. Course Code:	
M&R	
104. Semester / Year:	
year 2 semester 3	
105. Description Preparation Date:	
27/03/2025	
106. Available Attendance Forms:	
Attendance	
107. Number of Credit Hours (Total) / Number of Units (Total)	
60 hours (30 hours theoretical lectures and 30 hours small group session). Number of units are 4 each, 15 hours equal one unit.	
108. Course administrator's name (mention all, if more than one name)	
Name: Nehaya Menahi Tari Email: Nehaya.tari@uobasrah.edu.iq	
109. Course Objectives	
Course Objectives	The aims of this module are that students should <ul style="list-style-type: none"> • understand membrane structure and function and be able to relate this to cell behaviour; • understand how the movement of ions and molecules across membranes may contribute to pH and cell volume regulation and electrical excitability and nerve impulse conduction, • appreciate how chemical messengers, such as hormones and neurotransmitters, influence the activity of cells and organs by interacting with receptors; • understand in principle how drugs might modify the action of such chemical messengers.
110. Teaching and Learning Strategies	
Strategy	Since the founding of the college in 2017-2018, the Microbiology Branch at Al-Zahraa College of

	<p>Medicine has used the integrative education style of lectures and discussions in small groups. Education is based on understanding the content without memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period of 15 weeks, including a week for review and evaluation exam.</p> <ul style="list-style-type: none"> - Brainstorming education strategy - Education strategy notes series - Large group students - Team based learning - Teaching programs and symposiums - Self-study groups
111. Course Evaluation	
<p>The evaluation of students shall be consistent with the evaluation requirements that were agreed upon in the College Council and with the approval of the Council of Deans of Medical Colleges that follow the integrative approach, by approving 20% annual effort collected from the mid-semester examination. The final exam represents 80% of the grade.</p> <p>In both exams, there are two exam papers. The first consists of questions that are answered with Short Answer Questions, which are combined with the rest of the modules to form complementary questions. The Diseases and Immunity module's share is 30 marks out of 120 marks. As for the second paper, the questions are answered with the correct choice, and the module score is also 30 out of 120 degrees. In both papers, the questions are distributed in a way that includes all the academic topics given to the students.</p> <p>The college also has an important evaluation program that shows the teaching staff the progress achieved in the level of students, called the Personal and Professional Development Program.</p> <p>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</p>	
112. Learning and Teaching Resources	
Required textbo (curricular books, if any)	Membrane & receptor module workbook, Leices University, College of Medicine.
Main references (sources)	<p>•Page, C.P., Hofmann, B., Curtis, M., & Walker, M.. Integrated Pharmacology, With Student Consult Online Access, 3rd Edition, Mosby, 2006, ISBN 0323040802</p> <p>•Rang, H.P., Dale, M.M., Ritter, J.M., and Flower, R. Rang & Dale's Pharmacology: With Student Consult Online Access, 6th Edition, Churchill Livingstone, 2007, ISBN 0443069115</p>

	<ul style="list-style-type: none"> • Koeppen, B.M. & Stanton, B.A. Berne & Levy: Principles of Physiology, 6th Edition, Wolfe Publications, 2006, ISBN 9780323073622 • Widmaier, E.P., Raff, H. & Strang, H. Vander's Human Physiology: the mechanisms of body function, 11th Edition, McGraw-Hill, 2005, ISBN 9780077350017 • Norman, R.I. & Lodwick, D. Flesh and Bones of Medical Cell Biology, Elsevier, April 2007, ISBN-13: 978-0-7234-3367-5. ISBN-10: 0-7234-3367-4 • Norman, R.I. & Lodwick, D. Medical Cell Biology Made Memorable, Churchill Livingstone, 1999, ISBN 0443058156 • Barritt, G.J., Communication within Animal cells, Oxford Science, 1992, ISBN 0198547269 • Bray, J.J., Cragg, P.A., Macknight, A.D.C., Mills, R.G. & Taylor, D.W. (Eds), Lecture Notes on Human Physiology, 4th Edition, Blackwell Scientific Publications, 1999, ISBN 0865427755 • Ganong, W.F., Review of Medical Physiology, 23rd Edition, McGraw-Hill, 2009, ISBN 9780071605670 • Golan, D.E., Tashjian, Jr., A.H., Armstrong, E.J. & Armstrong, A.W. Principles of Pharmacology: <ul style="list-style-type: none"> • The pathophysiologic basis of drug therapy, 2nd edition, Lippincott. Williams and Wilkins, 2007, ISBN 0781783550 • Guyton, A.C., Human Physiology and Mechanisms of Disease, 6th Edition, W.B. Saunders, 1997, ISBN 0721632998 • Schmidt, R.F. & Thews, G., Human Physiology, 2nd Edition, Springer-Verlag, 1989, ISBN 3540194320 • Waller, D. & Renwick, A., Principles of Medical Pharmacology, Balliere Tindall, 1994, ISBN 0702016136 • Waller, D.G. Medical Pharmacology and Therapeutics, 2nd Edition. Elsevier Sanders, 2005, ISBN 0702027545
Recommended books and references (scientific journals, reports...)	

Electronic Websites	Referend	Google classroom
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Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

20. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assist prof Nehaya menahi tari	physiology	physiology			Staff	
Lecturer Ahmed Bader	physiology	physiology			Staff	
Lecturer Zainab Almnaseer	biochemistry	biochemistry			Staff	
Assist prof Hadeel S. Al Ali	physiology	physiology			Staff	
Assist prof Maida Abdulaa Adnan	biochemistry	biochemistry			Staff	
Lecturer Amani Neama	biochemistry	biochemistry			Staff	

Lecturer Zainab Muzahim	biochemistry	biochemistry			Staff	
Assist Lecturer Ibrahim Ayad	biochemistry	biochemistry			Staff	
Alhassan mujtaba	pharmacology	pharmacology				lecturer
Sarah Mohammed	pharmacology	pharmacology				Lecturer
Fatima Yousif	pharmacology	pharmacology				Lecturer
Haneen Jasim.	physiology	physiology				Lecturer
Ansam Munadhil	physiology	physiology				Lecturer
Hamid Jaddoa	biochemistry	biochemistry				lecturer

113. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	<p>lecture 1</p> <p>1- List the main kinds of lipids and general properties of fatty acids. Describe the properties of amphipathic molecules and explain the process of formation of lipid bilayers.</p> <p>2-Distinguish peripheral from integral membrane proteins and explain the forces associating them with the membrane.</p> <p>lecture 2</p> <p>1. The distribution and role of proteins in membrane structure.</p> <p>2. The importance of an asymmetric distribution of membrane proteins .</p> <p>3. Mechanisms for the correct insertion of membrane proteins into the lipid bilayer.</p>	<p>Lecture 1 : LIPIDS, PROTEINS AND MEMBRANE STRUCTURE</p> <p>Lecture 2 MEMBRANE PROTEINS, MEMBRANE ASYMMETRY AND THE CYTOSKELETON</p>	<p>Large group students</p> <p>Team based learning</p> <p>Teaching programs and symposiums</p> <p>Self-study groups</p>	<p>It consists from:</p> <ul style="list-style-type: none"> - Daily test individual tests (IRT) and team based test (TRT) as a part of a part of the team based learning -the assessment at the end of the semester <p>The exam will be integrative, meaning it includes all modules in the semester for the purpose of linking them together</p> <p>Provides compatibility</p>

		4. The structure of the erythrocyte cytoskeleton.			between module requirements and integration objectives The exam is divided into two days: the first (paper I) consists of essay questions, and the second (Paper II) contains MCQs. The final grade consists of two paper grades
2	4	<p>Lecture 1: To consider the role of membranes as permeability barriers to small hydrophilic molecules and to explore the protein-mediated mechanisms that allow the uptake or extrusion of specific water soluble molecules and ions.</p> <p>2. Discuss the properties of solutes which affect their movement through membranes</p> <p>3. Distinguish passive diffusion, facilitated and active transport. Describe the general features of channel proteins</p> <p>lecture 2</p> <p>1. Outline the major physiological roles of Sodium-potassium ATPase (Na⁺/K⁺-ATPase Na⁺/K⁺ pump) , Plasma membrane Ca²⁺-ATPase (PMCA) , Sarcoplasmic /endoplasmic reticulum ATPase (SERCA), Sodium calcium exchange (NCX) and Sodium hydrogen exchange (NHE) Anion exchange (AE)</p> <p>2. How do ion transporters work together in cell physiology?</p> <p>3. To consider how ion transport</p>	<p>Lecture 1: ROLE OF MEMBRANES AS PERMEABILITY BARRIERS</p> <p>Lecture 2: ATP-DEPENDENT ION PUMPS AND ION EXCHANGERS</p>		

		contribute to: Renal Na ⁺ handling, Renal bicarbonate reabsorption, Cell volume regulation, Cellular pH regulation and Cellular Ca ²⁺ handling			
3	4	Lecture1: Membrane Potential, how the resting potential of a cell can be measured, and the range of values found. 2: Understand the concept of Selective Permeability, and explain how the selective permeability of cell membranes arises. 3: Describe how the resting potential is established in relation to the distribution of ion sacross cell membranes. 4: Understand the term Equilibrium Potential for an ion and calculate its value from the ionic concentrations on either side of the membrane.	Lecture 1 : RESTING MEMBRANE POTENTIAL Lecture 2: MEMBRANE POTENTIAL CHANGES		
4	4	lecture 1 LO1: The properties of the action potential and its ionic basis LO2: The associated changes in membrane ionic permeability LO3: The basis of the all-or-nothing	LECTURE 1: THE ACTION POTENTIAL AND ITS PROPERTIES LECTURE 2 : CONDUCTION OF		

		<p>law and refractoriness in terms of these changes in permeability</p> <p>L04: Some molecular properties of ion channels</p> <p>L05: To understand the action of local anesthetics.</p> <p>Lecture 2</p> <p>L01: Describe the results of extracellular recording and how this can be used to measure conduction velocity</p> <p>L02: Explain how axons are raised to threshold.</p> <p>L03: Explain the local circuit theory of propagation.</p> <p>L04: Explain how conduction velocity is linked to fiber diameter .</p> <p>L05: Explain the implications of myelination for conduction.</p> <p>L06: Describe certain consequences of demyelination</p>	THE NERVE IMPULSE		
5	4	<p>lecture 1</p> <p>L01 Apply the effect of AP on the Ca²⁺ channels in a nerve</p> <p>L02 Describe some diversity aspects of Ca²⁺ channels</p> <p>L03 Outline events underlying fast synaptic transmission</p>	<p>lecture 1 :</p> <p>Cellular response to action potential</p> <p>lecture 2: Control of intracellular calcium ion concentration</p>		

		L04 Distinguish some properties of ligand gated channels L05 Outline the types of blockers of the nicotinic receptors lecture 2 L01 Understanding the “tool-box”: Cellular Ca²⁺ handling under resting condition alteration to regulate aspects of cellular activity restoration to basal levels L02 Cellular mechanisms that regulate [Ca²⁺]_i L03 Examples of how changes in [Ca²⁺]_i can be used as an intracellular signaling mechanism to regulate cellular physiology			
6	4	lecture 1 L01 How RME process can contribute to the uptake of metabolites. L02 The passage of large molecules across cells. L03 The control of receptor number at the cell surface and the entry of membrane-enveloped viruses. Lecture 2 L01: The principles of communication between cells via chemical	lecture 1 Principles of receptor mediated endocytosis Lecture 2 RECEPTORS IN CELL SIGNALLING & RECEPTOR STRUCTURE		

		<p>messengers in the endocrine and nervous systems.</p> <p>•L02: The role of receptors in transducing the information carried by an extracellular hydrophilic signaling molecule across a hydrophobic cellular membrane bilayer</p> <p>•L03: The concept of receptor super-families, based on common structural motifs, and the structure of the four major classes of receptors involved in cellular signaling via hormones, local mediators and neurotransmitters</p>			
7	4	<p>To understand how the activation or inhibition of effector molecules (e.g. an enzyme or an ion channel) leads to specific cellular responses.</p> <p>To highlight the importance of second messengers (e.g. cAMP, IP3) in these signaling pathways</p> <p>To provide some clinically relevant examples illustrating how such signal transduction pathways bring about physiological changes in key cell function</p>	RECEPTOR-EFFECTOR SIGNALLING VIA G PROTEINS		
8	4	Students assignment presentation			

9	4	<ul style="list-style-type: none"> • Describe the difference between drug affinity, efficacy and potency • Describe what is meant by the terms agonist, partial agonist and antagonist • Distinguish competitive and non-competitive antagonism • Understand the adaptive changes which can occur in receptor populations when exposed to agonists and antagonists • Appreciate whole body considerations of drugs reaching their sites of therapeutic action, including principles of drug bioavailability and inactivation 	PHARMACOKINETICS		
10	4	<p>To provide you with an understanding of drug-receptor interactions to eventually help you consider therapeutic decisions in clinical practice.</p> <ul style="list-style-type: none"> • To understand the quantitative relationship between drug concentration and response are presented and the concepts 	DRUGS AND RECEPTORS		

		<p>underlying agonist and antagonist drug action described</p> <ul style="list-style-type: none"> • to know what is meant by the terms: affinity, efficacy, potency, agonist, antagonist and partial agonist. 			
11	4	<p>1. Know the effect of autonomic nervous system stimulation on various system.</p> <p>2. To know some details about clinical diseases.</p> <p>3. Knowing the pathophysiological changes of these diseases.</p> <p>4. To know some guideline about the management of these diseases.</p> <p>5. knowing some clinical application of autonomic drugs.</p>	Clinical application of receptor regulation		

Course Description Form

Second stage

114.	Course Name:	Clinical problem solving II		
115.	Course Code:	CPS II		
116.	Semester / Year:	Semester/ second stage		
117.	Description Preparation Date:	27 th .March of 2025		
118.	Available Attendance Forms:	Attendance		
119.	Number of Credit Hours (Total) / Number of Units (Total)	30hrs. (15 hrs. as lectures , 15hrs.as small group)		
120.	Course administrator's name (mention all, if more than one name)	Name: Halah Muzahim Email: halah.mohammed@uobasra.edu.iq		
121.	Course Objectives	<p>The aim of this module, as an extension to the Clinical Problem Solving module in semester one, is to help student to continue to develop the skills that will allow them to think like a doctor</p> <p>-Develop skills in retaining a large amount of information that lasts, and to focus that information upon the solution of patients' problems.</p>		
122.	Teaching and Learning Strategies	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">Strategy</td> <td>Integrative teaching in form of lectures , small groups and tea based learning</td> </tr> </table>	Strategy	Integrative teaching in form of lectures , small groups and tea based learning
Strategy	Integrative teaching in form of lectures , small groups and tea based learning			
123.	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		
124.	Learning and Teaching Resources			

Required textbooks (curricular books, if any)	no certain textbooks . students are free to use different resources like textbooks ,websites in addition to #other modules resources
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

21. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements /Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Dr.halah Muzahim	M.B.CH .B	Family physician				--
Prof. Ass. dr.Jawad Ramadhan	M.B.CH .B	General surgeon				
Prof.Ass.dr. maimi kadhum	M.B.CH .B	Pediatrician				
Dr.sadiq kalaf	M.B.CH .B	Lab .hematologist				
Dr.omar noaman	M.B.CH .B	Family physician				
Dr.fatima khalid	M.B.CH .B	Family physician				
Dr.rasha kahtan	M.B.CH .B	Family physician				

9. Expected learning outcomes of the program

Knowledge

Learning Outcomes 1

Doctors who know what can disease etiologies
And able to build a concept map for every medical condition faced them

Skills	
Learning Outcomes 2	1-Explain how clinical problem solving is learned during medical education 2-Construct ‘concept maps’ related to clinical presentations or conditions, which enable them to link information and ideas into multiple contexts 3-Identify the important questions which may be asked about any clinical presentation or condition 4-Establish an intellectual process that enables students to identify and catalogue as the medical course progresses information relevant to individual clinical presentations or conditions 5-Build mental structures which allow to collect information systematically from patients by taking a history from them, conducting a focussed examination and initiating appropriate investigations 6-Audit effectively skills in literacy, numeracy, and information handling, to identify and remedy any deficiencies
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Learning Outcomes 4	To make a professional doctors know how to treat patients with dignity and humanity .
Learning Outcomes 5	Learning Outcomes Statement 5

Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

Corse structure-11					
Week	Hours	Learning outcomes	Unit or subject outcome	Learning method	Assessment method
.12	3.5	<ul style="list-style-type: none"> • identify and map in the logical way the topics relevant to the understanding, diagnosis and management of a patient who reports feeling “tired all the time” • identify detailed information both from concurrent modules in semester 3 and from previous study to populate a concept map • be able to construct and analyse questions of the type used in ESA assessments. • Audit numeracy skills related to medicine and devise an action plan to address deficiencies 	Tired all the time	Integrative learning	Team based learning
.13	5		Tired all the time		
.14	4	<ul style="list-style-type: none"> • identify and map in the logical way the topics relevant to the understanding, diagnosis and management of a patient who reports feeling “tired all the time” • identify detailed information both from concurrent modules in semester 3 and from previous study to populate a concept map 	Tired all the time Anaemia , iron metabolism		

		<ul style="list-style-type: none"> • be able to construct and analyse questions of the type used in ESA assessments. 			
.15	4		Anaemia , iron metabolism		
.16	3.5	<ul style="list-style-type: none"> • identify and map in the logical way the topics relevant to the understanding, diagnosis and management of falls • build on initial consideration of falls as a multi-factorial condition • identify detailed information both from concurrent modules in semester 3 and from previous study to populate concept map 	Fall		
.17	4		Fall		
.18	3.5	<ul style="list-style-type: none"> -Identify and map in a logical way the topics relevant to the understanding diagnosis and management of a patient who reported 'recurrent episodes of fainting -Identify detailed information both from concurrent modules in semester 2 and from previous study to populate concept map (very short review) Open Discussion 	Fainting		
.19	4		Fainting		
.20	3.5	Demonstrate a refinement of	How to write a		

		student ability to analyse and construct questions of the type used in ESA assessments to assess current level of knowledge and understanding of the Phase 1 curriculum to date in preparation for the forthcoming End of Semester Assessment	good question		
.21	4				
.22	1	1- Understand where to look for different types of information, in particular current and reliable research evidence in support of evidence based medicine. 2- Devise an effective search strategy. 3- Identify appropriate and relevant resource. 4- Evaluate the reliability of information resources.	Information seeking skills		

Course Description Form

Second stage

1. Course Name:	
Baath crimes	
2. Course Code: nothing	
BaCr	
3. Semester / Year:	
Second stage / first semester	
4. Description Preparation Date: 26/03/2025	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours per semester (30 hours of theoretical lecture) Number of units: 2 units (every 15 theoretical hours represents one unit)	
7. Course administrator's name (mention all, if more than one name)	
Name: assist. Lecturer Amal Email: amal.jader@uobasrah.edu.iq Name: assist. Lecturer Najwan Hassan Saba Email: najwan.hasan@uobasrah.edu.iq	
8. Course Objectives	
Course Objectives	This course aims to: provide the student with the necessary knowledge of the Baath crime, as deemed by the Ministry of Higher Education in Iraq. Creating curricula to study this dark era in Iraq's history so that it remains a witness. On the afternoon. The Ministry began teaching the subject of Baath crimes in all its colleges. In order to chronicle that stage and be firmly established in the minds of our dear students. They know well the circumstances of that difficult period in Iraq's history
9. Teaching and Learning Strategies	
Strategy	Theoretical subject for two hours per week, its vocabulary distributed over thirty weeks, including monthly exams. Preparing reports and exams at the end of the year

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2hr.	Knowledge of the crimes of the Baath regime according to the Criminal Court Law of 2005	Crimes of the Baath regime according to the Criminal Court Law of 2005	Learning method Attendance and detailed explanation to the student	Semester exams and reports
2	2hr.	Knowledge of the types and types of crimes	Crime sections and types		
3	2hr.	Knowledge of psychological and social crimes and their effects	Psychological and social crimes and their effects		
4	2hr.	Knowing the Baathist regime's position on religion	the Baathist regime's position on religion		
5	2hr.	Knowledge of some decisions regarding political and military violations	some decisions regarding political and military violations		
6	2hr.	exam			
7	2hr.	Knowing the places of prisons and detention of the Baath regime	the places of prisons and detention of the Baath regime		
8	2hr.	Knowledge of the environmental crimes of the Baath regime in Iraq	the environmental crimes of the Baath regime in Iraq		
9	2hr.	Knowledge of mass grave crimes	mass grave crimes		
10	2hr.	Knowledge of the chronological classification of genocide graves	the chronological classification of genocide graves		
11	2hr.	Knowing the locations of cemeteries throughout Iraq	locations of cemeteries throughout Iraq		
12	2hr.	Test on some topics	Test on some topics		
13	2hr.	review	review		
14	2hr.	Discussion of reports			

15	2hr.	exam			
11. Course Evaluation					
The evaluation of students shall be consistent with the evaluation requirements that were agreed upon in the College Council and with the approval of the Council of Deans of the Colleges of Medicine that follow the integrative approach, by adopting 30% annual tuition collected from the mid-semester exam for the theoretical subject. The final exam represents 70% of the grade					
12. Learning and Teaching Resources					
Required textbooks (curricular books any)			A reference issued by the Ministry of Higher Education and Scientific Research public and private universities (Crimes of Baath Regime in Iraq)		
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites			Google classroom		

10. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	1– Providing the student with the necessary knowledge of Baath crimes 2–Knowledge of constitutional human rights 3– Providing the student with the necessary knowledge of the principles of democracy 4– Knowledge of human rights in international, regional and national covenants and conventions
Ethics	
Learning Outcomes 1	Graduating scientific doctors and scientists who hold humanity as the basis of their work.
Learning Outcomes 2	Doctors know exactly how to deal psychologically and ethically with their patients.
Learning Outcomes 3	Doctors completely protect their patients' secrets
Learning Outcomes 4	Doctors work as a team and do not mind cooperating with each other because they have learned to work collectively

Course Description Form

Second stage

125.	Course Name:
Gastrointestinal tract (GIT) module	
126.	Course Code:
GIT	
127.	Semester / Year:
Second year/ semester 4	
128.	Description Preparation Date:
14/2/2025	
129.	Available Attendance Forms:
In person	
130.	Number of Credit Hours (Total) / Number of Units (Total)
4 (60 hours)	
131.	Course administrator's name (mention all, if more than one name)
Name: Assist. Prof. Dr. Sadik Hassan Kadhem Email: sadik.kadhem@uobasrah.edu.iq	
132.	Course Objectives
<ul style="list-style-type: none">• 1 Graduating skilled medical students and preparing them to be professional doctors who are knowledgeable about diseases and their causes.• 2- Providing the student with the knowledge and skills necessary to diagnose and treat disorders of the gastrointestinal system.• 3 - Scientific and professional dealing with emergency medical cases of gastrointestinal disorders and learning methods and cognitive and practical skills to avoid or reduce the repercussions of these cases.• 4- Enabling the student to enter the foundation year training program and subsequent postgraduate training programs and providing him with the necessary skills for the management and basic treatments of gastrointestinal conditions.• 5- Combining modern scientific research with what is given in lectures	
133.	Teaching and Learning Strategies
Since the founding of the college, the Department of Surgery at Al-Zahraa College of Medicine has used an integrative education style represented by lectures and	

discussions in small groups. Education is based on understanding the content with memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week and for 12 weeks

- Brainstorming education strategy
- Education strategy notes series

134. Course Evaluation

The evaluation of students shall be consistent with the evaluation requirements that were agreed upon in the College Council and with the approval of the Council of Deans of Medical Colleges that follow the integrative approach, by approving 20% annual tuition collected from:

- Daily student activities, and the student's contribution to the class by presenting ideas, asking and answering questions.
- Daily tests (coz)
- End-of-module exam: written assessment through two papers: the first paper is best-answer-choice questions (BAQ), and the second paper is short-answer questions (SAQ).

The final exam represents 80% of the grade. There will be two papers for the exam, the first of which will be short answer questions, which will be combined with the rest of the modules to form complementary questions. The share of the gastrointestinal system module will be 30 marks out of 120 marks. As for the second paper, the questions are answered with the correct choice, and the module score is also 30 out of 120 degrees. In both papers, the questions are distributed in a way that includes all the academic topics given to the students.

The college also has an important evaluation program that shows the teaching staff the development taking place in the students' level. It is called the Personal and Professional Development Program. The teachers of the digestive system module have been divided into the list of student mentors (Mentors) in order to follow up on the development of the students' personal and educational level and help them in overcoming the challenges that arise. You encounter them while learning and acquiring skills

135. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	<ul style="list-style-type: none"> • To appreciate the functions of the GI system and how its structure reflects the functions • To form a 'big picture' mental image of the structure of the GI system • To appreciate the ways in which each part of the GI system may be affected by disease 	Overview of gastrointestinal function	Integrated education style, represented by lectures and discussions in small groups. Education is based on understanding the content without memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period of 15 weeks, including a week for review and evaluation exam	A weekly examination of the Team-Based Learning (TBL) method is conducted as a way to improve learning outcomes by promoting discussion among students
2	4	<ul style="list-style-type: none"> • to consider the role and properties of saliva and the control of its secretion • to acquire understanding of the neurological control of swallowing and the movement of food down the oesophagus • to consider some clinical disorders of the upper alimentary canal • to study the early development of the abdominal wall and the peritoneal cavity 	Salivation and swallowing/development of the GI tract		
3	5	<ul style="list-style-type: none"> • To explore abdominal wall musculature • To explore the surgical anatomy of the abdominal wall in relation to developmental defects • To explore the concept of referred pain • To appreciate the structures of the abdominal wall, and that hernias may develop 	Abdominal wall and Hernias		
4	4	<ul style="list-style-type: none"> • To study the histology of the stomach • To consider the role of the stomach as a food store • To discuss the secretions of the stomach and their role in digestion • To discuss the control of gastric emptying • To study the effects of peptic and gastric ulcer disease • To introduce common congenital defects of the GI tract 	Stomach – 1		

5	4	<ul style="list-style-type: none"> To appreciate the conditions which affect the stomach To describe the presentation of gastric disease The outline the diagnosis and management of gastric disease 	Stomach - 2		
6	4	<ul style="list-style-type: none"> Understand the structure and functions of the Liver, Biliary Tree and Pancreas and how they may be affected by disease 	The Liver, Biliary Tree& Pancreas -1		
7	4	<ul style="list-style-type: none"> to apply your knowledge of the anatomy of the liver, the gall bladder, the bile duct and the pancreas to understand the role of the liver in the handling and excretion of toxins to appreciate the causes and consequences of liver disease to appreciate the effects of disorders of the biliary tree, including gall stones to appreciate the causes and consequences of pancreatic disease 	Liver, Gallbladder and Pancreas - 2		
8	5	<ul style="list-style-type: none"> to understand the structure and function of the small and large intestine to study the gross & microscopic anatomy of the small and large intestine to understand the pathological basis and clinical presentation of inflammatory bowel disease 	The intestines		
9	4	<ul style="list-style-type: none"> To discuss the role bacteria play in supporting the functions of the gastro-intestinal tract to introduce a variety of intestinal infections and discuss their causes to discuss the immunological properties of the gastro-intestinal tract To become familiar with the imaging techniques used to study the GI tract 	Microbiology of the Gastro-intestinal tract/ Imaging of the GI Tract		
10	4	<ul style="list-style-type: none"> to outline the macroscopic, endoscopic and basic radiological features 	GI Malignancies		

		of the common gastrointestinal tumours <ul style="list-style-type: none"> to give an impression of the relative incidence of gastrointestinal tumours and their age and sex distribution to demonstrate some of the ways in which a gastrointestinal tumour may draw attention to itself and thus how the patient may present 			
11	4	<ul style="list-style-type: none"> To introduce the signs and symptoms of abdominal disorders To introduce a sensible method for the examination of the abdominal system 	Symptoms of GI disorders Examination of the abdomen		
12	4	Revision of all sessions	Revision		

136. Learning and Teaching Resources

Required textbooks (curricular books, if any)	GIT module workbook, Leicester University, College of Medicine.
Main references (sources)	<ol style="list-style-type: none"> Porth, CM. Essentials of Pathophysiology. 3rd Edition, Lippincott Williams & Wilkins [2011] Chew,R& Long, MS. Gastrointestinal system – crash course. 3rd Edition, Mosby [2008] ISBN9780723434207 Snell R.S. Clinical Anatomy by regions, 9th Edition, Lippincott Williams & Wilkins, [2012] Moore, K.L. & Dalley, A.f. Clinically Oriented Anatomy, 8th Edition, Lippincott Williams & Wilkins [2018] Drake, R.L., Vogl,W& Mitchell, A.W.M. Gray’s Anatomy for Students, Elsevier Churchill Livingstone [2015] General textbooks of Physiology & Clinical Medicine (Kumar & Clark) Ellis, H. Clinical Anatomy, Blackwell Sadler, T. W. Langman’s Medical Embryology
Recommended books and references (scientific journals, reports...)	

Electronic References, Websites	The module website is on Google Classroom, which students are informed of at the beginning of each academic year and where they register with their official university emails.
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22. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff		Lecturer
	General	Special		Staff	Lecturer	
1- Assist. Prof. Dr. Sadik Hassan Kadem	medicine	Pediatric surgery	Laparoscopic surgery	Staff		
2- Assist. Prof. Dr. Jawad Ramadhan Fadhel	medicine	General surgery	Laparoscopic surgery	Staff		
3- Prof. Haithem Hussein Ali	medicine	Pediatric surgery	Laparoscopic surgery	Staff		
4- Dr. Wesam Hamza Abbas	medicine	General surgery	Laparoscopic surgery	Staff		
5- Dr. Thura Kadhem Jaafer	medicine	Pediatric surgery	Laparoscopic surgery		Lecturer	
6- Dr. Amani Naama Mohammed	medicine	Biochemistry		Staff		
7- Dr. Ansam Munadhel	medicine	neurophysiology			Lecturer	
8- Dr. Ban Mohammed Salih Saeed	Biology	Medical microbiology/bacteriology		Staff		
9- Dr. Ahmed Dawai Jiad	medicine	General surgery	Laparoscopic surgery		Lecturer	
10- Dr. Zainab Khaled Khalil	medicine	Clinical immunology		Staff		
11- Dr. Farqad Majeed Mohsen	Medical microbiology	Medical microbiology/mycology		Staff		
12- Dr. Ahmed Jalil Abdulrazzaq	medicine	General surgery	Laparoscopic surgery		Lecturer	

13- M.A. Haneen Jassim Mohammed	medicine	neurophysiology			Lecturer
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11.Expected learning outcomes of the program

Knowledge

Describe the gastrointestinal tract in terms of its gross and histological structure (including blood supply, lymphatics, nerves, and its radiological and endoscopic appearance)

- Describe the structure and function of the salivary glands, liver, gallbladder, and pancreas, the mechanism of their secretion and control, and their role in the digestive process.
- Describe the structures and processes involved in chewing and swallowing food and identify the causes of dysarthria and common esophageal disorders such as achalasia and gastroesophageal reflux
- Describe the functions of the stomach and the mechanisms of controlling stomach secretions
- Describe the movements of the stomach and the regulation of the pyloric sphincter in the passage of stomach contents into the duodenum
- Describe the major effects of peptic and gastric ulcer disease on the structure and function of the stomach, duodenum and associated structures
- Describe the structure and function of the liver, biliary tree, and pancreas
- Describe common liver and gallbladder disorders (eg, ascites, portal hypertension, jaundice, cirrhosis, gallstones, bile and pancreatic obstruction, pancreatitis) and their consequences
- Describe the functional and structural adaptations of the intestine with regard to the absorption of water, electrolytes, carbohydrates, proteins, fats and vitamins and explain the main methods and mechanisms related to the processes of absorption and elimination of undigested and unabsorbed substances
- Explain, in general terms, the basis and consequences of disorders such as malabsorption, diarrhea, steatorrhea, constipation, and inflammatory bowel disease.
- Explain the neurological basis of visceral and somatic abdominal pain
- Describe the embryology of the adult gastrointestinal tract and explain common congenital disorders (hiatal hernia, Meckel's diverticulum, diverticulosis and common sites of gastrointestinal atresia and fistulas)
- Describe the structure of the abdominal wall and inguinal canal and the structural basis of common birth defects (eg, inguinal, umbilical, and other hernias)
- Describe the causes and effects of common infections in the digestive system
- Describe the presentation, investigation and management of inflammatory bowel disease

<ul style="list-style-type: none"> • Describe the natural history of common benign and malignant tumors of the gastrointestinal tract and associated structures
Skills
<p>Understand the structure, function and development of the human digestive system</p> <ul style="list-style-type: none"> • Understand how to evaluate the condition of the digestive system • Understand how gastrointestinal function changes in common diseases • Understand the basic principle of management of gastrointestinal diseases
Ethics
<p>- Graduating scientific doctors and scientists who hold humanity as the basis of their work.</p> <p>Doctors know exactly how to deal psychologically and ethically with their patients. Doctors keep their patients' secrets completely</p> <p>Doctors work as a team and do not mind cooperating with each other because they have learned to work collectively- Graduating scientific doctors and scientists who hold humanity as the basis of their work.</p> <p>Doctors know exactly how to deal psychologically and ethically with their patients. Doctors keep their patients' secrets completely</p> <p>Doctors work as a team and do not mind cooperating with each other because they have learned to work collectively</p>

Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

Course Description Form

Second stage

137. Course Name:	
Respiratory System Module	
138. Course Code:	
Resp.	
139. Semester / Year:	
Second year/ fourth semester/ S4	
140. Description Preparation Date:	
7/3/2025	
141. Available Attendance Forms:	
In presence	
142. Number of Credit Hours (Total) / Number of Units (Total)	
60 hours for course (Lectures: 30 hours, Small groups: 30 hours)	
143. Course administrator's name (mention all, if more than one name)	
Name: Nehaya Mnahi Tari Email: nehaya.tari@uobasrah.edu.iq	
144. Course Objectives	
Course Objectives	<p>4- To understand the normal structure and function of the respiratory system, how that is altered by disease, how respiratory function is assessed, and how, in principle, respiratory disorders are managed.</p> <p>5- To study of respiratory conditions will continue into Phase 2 of the course in the 'Cardio-Respiratory' Block, and in the 'Acute Care' block and, as respiratory disease is common you will also meet patients with respiratory problems in virtually all clinical situations.</p> <p>6- Integrating between the latest developments in the health sciences and what is given in lectures for medical students.</p>
145. Teaching and Learning Strategies	
Strategy	<p>The style that used by the Physiology Branch in teaching process since establishment of Al-Zahraa College of Medicine is the integrative education system includes lectures and discussions in small groups.</p> <p>Learning methods:</p> <ul style="list-style-type: none"> - Large group students - Team based learning - dissecting room

		<ul style="list-style-type: none">- Teaching programs and symposiums- Self-study groups			
146. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	<p>Lecture 1</p> <ul style="list-style-type: none">• explain the broad functions of the respiratory system in health• define the terms upper & lower respiratory tract• describe the component parts of upper & lower respiratory tracts• outline the broad function of the different parts of the respiratory tract• describe the structure and respiratory functions of the nose, paranasal sinuses, pharynx and larynx, and describe the connections between the nose, paranasal sinuses, pharynx, auditory tube & middle ear <p>Lecture 2</p> <ul style="list-style-type: none">• describe the surface marking of pleural cavity (the lines of pleural reflection), and the surface marking of the lungs & lobes of the lung• describe the histology of the respiratory tract and relate it to the functions and defence of the lungs• describe the structure of the airways in the lung, distinguish bronchi from bronchioles, and define what is meant by terminal bronchiole, alveolar duct and alveolus and describe the structure of the alveoli <ul style="list-style-type: none">• state Boyle's law, Charles law, the Universal Gas Law. Define the terms 'partial pressure', 'vapour pressure', 'saturated vapour pressure', 'tension' and 'content' of gas in a liquid.• define the terms, 'tidal volume', 'respiratory rate' and 'pulmonary ventilation rate.'	<p>Lecture 1: Introduction to the respiratory system</p> <p>Lecture 2: Histology of the respiratory tract</p>	Integrative education system includes by lectures and discussions in small groups	Weekly test individual tests (IRT) and team based test (TRT) as a part of the team based learning
2	4	<p>Lecture 1</p> <ul style="list-style-type: none">• Description of the main functional units of the respiratory system and its division into upper and lower respiratory tracts.	Lecture 1: Anatomy of the respiratory system		

		<ul style="list-style-type: none"> •Description of the component parts of the upper & lower respiratory tract and their general functions. •Description of the structure of each part of the respiratory tract. <p>Lecture 2</p> <ul style="list-style-type: none"> •Define the terms 'Functional Residual Capacity', 'Residual Volume', 'Vital Capacity' 'Inspiratory Capacity'. •Define the terms 'Serial dead space' and 'Physiological dead space' state in general terms how these variables are measured. •Calculate alveolar ventilation when given the pulmonary ventilation rate, dead space volume and respiratory rate 	Lecture 1: Ventilation of lungs		
3	4	<p>Lecture 1</p> <ul style="list-style-type: none"> • Describe the mechanical system of the lungs and thorax • Define the term 'compliance' of the lungs and state how, in principle, it is measured • Describe the factors which affect compliance of the lungs, including the role of surfactant • Describe the factors which influence airway resistance in the normal lung and how airway resistance changes over the breathing cycle <p>Lecture 2</p> <ul style="list-style-type: none"> • explain common tests of lung function including simple spirometry • describe the measurement of forced vital capacity (FVC) and forced expiratory volume in one second (FEV1%) • explain obstructive and restrictive patterns of spirometry •Describe in principle the measurement of residual volume • Explain the nitrogen washout technique 	<p>Lecture 1: Mechanics of Breathing</p> <p>Lecture 2: Lung function Testing</p>		
4	4	<p>Lecture 1</p> <ul style="list-style-type: none"> • state the solubility of oxygen in body fluids. 	Lecture 1: Oxygen in blood		

		<ul style="list-style-type: none"> • draw an oxygen-haemoglobin dissociation curve, label the axes correctly and indicate the normal values of (i) alveolar pO₂ (ii) capillary pO₂ in a typical tissue. • list the properties of the haemoglobin molecule which facilitate the transport of oxygen in the blood. <p>Lecture 2</p> <ul style="list-style-type: none"> • draw the effects on the haemoglobin oxygen dissociation curve of (i) a fall in pH (ii) a rise in temperature. • estimate the rate of delivery of oxygen to the tissues at different capillary pO₂'s and pH's. • state the factors influencing the diffusion of gases across the alveolar membrane. • describe in outline how the transfer factor ('diffusion capacity') of the lungs may be determined • list the reactions of CO₂ in blood • write the Henderson - Hasselbalch equation, and be able to calculate plasma pH, given the pCO₂ and [HCO₃⁻]. • state the factors influencing the hydrogen carbonate concentration in plasma. • describe the buffering action of haemoglobin in red cells. • describe the function of carbamino compounds. • state the normal content of carbon dioxide in arterial and venous blood • describe the process of transport of CO₂ from tissues to lungs, and state the proportion of CO₂ traveling in various forms. 	Lecture 2: Carbon Dioxide in blood		
5	4	<p>Lecture 1</p> <ul style="list-style-type: none"> • Define: the terms hypoxia, hypercapnia, hypocapnia, hyperventilation, and hypoventilation. • Describe the effects on plasma pH of hyperventilation and hypoventilation. • Describe the general effects of acidosis, hypoventilation and hyperventilation • Define the terms 'Respiratory acidosis', 'Respiratory alkalosis', 'Compensated respiratory acidosis', 'Compensated respiratory alkalosis' 	<p>Lecture 1: Chemical control of breathing</p> <p>Lecture Respiratory Failure</p>		

		<p>and 'Compensated respiratory alkalosis'.</p> <ul style="list-style-type: none"> • Define the terms 'Metabolic acidosis', 'Metabolic alkalosis', 'Compensated metabolic acidosis', 'Compensated metabolic alkalosis' • Describe the acute effects of hyperventilation of (i) falling inspired pO₂ (ii) increases in inspired pCO₂ and the fall in arterial plasma pH. • Describe the location and function of the peripheral chemoreceptors and their role in the ventilatory and circulatory responses to hypoxia. • Describe the location and function of the central chemoreceptors, their role in the ventilatory respiratory changes in arterial pCO₂ and the role of the cerebro-spinal fluid, blood-brain barrier and choroid plexus in that response. <p>Lecture 2</p> <ul style="list-style-type: none"> • Respiratory failure definition • The types of respiratory failure and the difference between each • Common causes of each type • The headline management of each type 			
6	4	<p>Lecture 1</p> <ul style="list-style-type: none"> • Knowing the pathophysiology of asthma • Clinical presentation of asthma • How to diagnose asthma • Classification of asthma severity • Steps in management of asthma • Review of drugs used in treatment of asthma <p>Lecture 2</p> <ul style="list-style-type: none"> • Definition of COPD • Risk factors for COPD • Pathophysiology of COPD • Classification of severity • Clinical presentation and diagnostic tools • Management of COPD 	<p>Lecture 1: Asthma</p> <p>Lecture 2: COPD</p>		
7	4	<p>Lecture 1</p> <ul style="list-style-type: none"> • definition of Tuberculosis • mode of transmission • clinical feature • classification of TB • Management of TB • Prevention of TB 	<p>Lecture 1: Hypoxia</p> <p>Lecture 2: Tuberculosis</p>		

		<p>Lecture 2</p> <ul style="list-style-type: none"> •Define hypoxia •Describe type 1 and type 2 respiratory failure •Describe how ventilation / perfusion mismatch and diffusion impairment result in type 1 respiratory failure and outline the important causes of each . •Describe how ventilation results in type 2 respiratory failure and outline the important causes . •interpret uncomplicated blood gas abnormalities . 			
8	4	<p>Lecture 1</p> <ul style="list-style-type: none"> •Describe the basic principles of chest X-rays •The difference between the signs and symptoms in cross sections anatomically. •Describe the anatomical signs and symptoms approved in chest X-ray. •Review lung diseases and their signs and symptoms on X-rays. <p>Lecture 2</p> <ul style="list-style-type: none"> •definition of plural disease •types and examples of plural disease •differentiation between exudative and transudative plural effusions •simple outline of management 	<p>Lecture 1: Radiology of the Chest</p> <p>Lecture 2: Plural disease</p>		
9	4	<p>Lecture 1</p> <ul style="list-style-type: none"> •Defining pneumonia •distinguishing between its types •Describe the causes of infection in the hospital and the community. • Explaining the etiological indicators of the disease. •Detail the required laboratory tests •How to treat the disease and methods of prevention. <p>Lecture 2</p> <ul style="list-style-type: none"> •The definition of diffuse parenchymal lung disease •Symptoms in common for diffuse parenchymal lung disease •Characteristics of Idiopathic Pulmonary Fibrosis (IPF) •Characteristics of Non-Specific Interstitial Pneumonia (NSIP) •The approaches to these conditions 	<p>Lecture 1: Lower respiratory tract infections & Pneumonia</p> <p>Lecture 2: Interstitial lung Disease</p>		
10	4	<ul style="list-style-type: none"> •Describe the incidence of lung cancer in different groups • Factors causing lung cancer 	Lecture: Lung Cancer		

		<ul style="list-style-type: none"> •Describe the typical pattern symptoms reported by patients •Describe the common clinical signs associated with the disease •Understanding the imaging techniques used in diagnosis and staging. •Describe the common methods used to obtain materials needed for histological diagnosis. •Briefly describe the different treatments available and how they may affect survival. 			
11	4	Lecture 1&2 <ul style="list-style-type: none"> • explain common tests of lung function including simple spirometry describe the measurement of forced vital capacity (FVC) and forced expiratory volume in one second (FEV1%) • explain obstructive and restrictive patterns of spirometry •Describe in principle the measurement of residual volume and transfer factor • Explain the nitrogen washout curve 	Lecture 1&2 Spirometry		
12	4	Lecture 1& 2 <ul style="list-style-type: none"> •begin to develop the knowledge and skills necessary to take a history from and examine a patient presenting with problems relating to the respiratory system •be able to interpret spirometry tracings and apply this information in clinical practice •By the end of this and the following session and your self-study you should be able to make the diagnosis of respiratory disease • be able to use a patient-centered approach to explore symptoms and elicit key information about a patient's medical, family and psychosocial histories from patients presenting with: 	Lecture 1& 2 History taking and Clinical examination of respiratory system		
13	4	Revision	Revision of unit		
147. Course Evaluation					
It consists from:					

- Weekly test individual tests (IRT) and team based test (TRT) as a part of the team based learning

- The assessment at the end of the semester

The exam will be integrative, meaning it includes all modules in the semester for the purpose of linking them together

Provides compatibility between module requirements and integration objectives

The exam is divided into two days: the first (paper I) consists of essay questions, and the second (Paper II) contains MCQs.

The final grade consists of two paper grades

There is a module called Personal and Professional Development Program (PPDP) for evaluation the level of student and shows the progress of students in their academic study.

148. Learning and Teaching Resources

Required textbooks (curriculum books, if any)	Respiratory System module workbook, University of Basrah , AlZahraa College of Medicine.
Main references (sources)	<ul style="list-style-type: none"> ● Clinically oriented Anatomy by <i>Moore, KL & Dalley, AF</i> ● Gray's Anatomy for students by <i>Drake, Vogl and Mitchell</i> (or similar textbooks) ● Colour Atlas of Histology by <i>Leslie P. Gartner & James L. Hiatt</i> ● Lippincott's Illustrated reviews: Physiology by <i>Robin Preston & Thad E Wilson</i>, published by Walters Kluwer/Lippincott, Williams & Wilkins. ● Gannon's Review of Medical Physiology by <i>Barrett, Brooks, Boitano & Barman</i> ● Clinical Medicine by <i>Kumar P & Clarke M</i> ● Macleod's Clinical Examination by <i>Douglas G, Nicol F & Robertson C</i> Clinical Skills by <i>Cox N, Roper TA</i> ● Pharmacology by <i>Rang HP, Dale MM, Ritter JM & Moore PK</i> ● 'The Respiratory System at a Glance' by <i>Ward JPT, Ward J and Leach RM</i> published by Blackwell publishing ● 'Pulmonary Physiology & Pathophysiology: an integrated case-based approach' by <i>West J.B.</i> Published by Lippincott Williams & Wilkins.

Recommended books and references (scientific journals, reports...)	Module Medscape Practical video sessions
Electronic References, Websites	Google classroom

23. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assis Prof Dr Nehaya Mnahi Tari	Physiology	Physiology			Staff	
Assis Prof Dr Hadeel Salman Hussein	Physiology	Cardiovascular Physiology			Staff	
Dr Firas Mohamed	Medical Physics	Medical Physics			Staff	
Dr Ahmed Badr	Physiology	Physiology			Staff	
Dr Mustafa Emad	Internal Medicine	Internal Medicine				Lecturer
Professor Dr Nawal Mustafa	Anatomy	Anatomy				Lecturer
Dr Zuhair Abdulkareem	Internal Medicine	Internal Medicine				Lecturer
Dr Ahmed Dawaii	Surgery	Surgery				Lecturer

12. Expected learning outcomes of the program

Knowledge

Learning Outcomes 1	<p>Knowledge and understanding</p> <p>By the end of the unit student should be able to:</p> <p>Describe the structure and the respiratory function</p> <p>Demonstrate their ability to identify the important and respiratory causes</p>
Skills	
Learning Outcomes 2	Students are able to recognise common conditions affecting the respiratory system.
Learning Outcomes 3	The students are able to identify clinical symptoms and pathological effects and link them to the medical history of patient.
Ethics	
Learning Outcomes 4	Graduating scientific doctors, they know how to deal psychologically and ethically with patients
Learning Outcomes 5	Doctors work as a team and cooperate between them. They have learned to work collectively

Course Description Form

Second stage

149. Course Name:	
Health Psychology and diversity	
150. Course Code:	
Psy	
151. Semester / Year:	
Semester	
152. Description Preparation Date:	
27 / 03 / 2025	
153. Available Attendance Forms:	
Attendance Only	
154. Number of Credit Hours (Total) / Number of Units (Total)	
60 Credit hours (30 hours Lectures & 30 hours Small Groups Learning) * The Number of Units are 4 (1 Unit is equal to 15 Credit Hours)	
155. Course administrator's name (mention all, if more than one name)	
Name: Dr. Abbas Jumah Email: abbasjumah@uobasrah.edu.iq	
156. Course Objectives	
Course Objectives	-1 Graduating skilled medical students and preparing them to be professional doctors who are knowledgeable about mental health and the importance of human diversity. 2- Complete knowledge of the mechanisms of diagnosing psychological conditions 3- Combining modern scientific research with what is given in lectures
157. Teaching and Learning Strategies	
Strategy	Since the founding of the college in 2017-2018, the course on mental health and human diversity at Al-Zahraa College of Medicine has used an integrative education style of lectures and discussions in small groups. Education is based on understanding the content without memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period of 11 weeks, including a week for review and evaluation exam. - Brainstorming education strategy

- Education strategy notes series

158. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4 hours	Describe the structure, purpose and organization of the unit. Describe how biological, psychological, and social factors can contribute to health, disease, and health-related behavior. Describe how normal human cognitive functions can lead to stereotypical thinking. Describe evidence of age-related changes in intellectual performance and memory. Recognize the importance of psychosocial considerations in the clinical management of older patients. Reflect on and challenge personal stereotypes about aging	1 - Lecture Introduction & BPS model stereotypical thinking. 2 -Lecture Aging Online Learning, Aging DVD ,youtube & reflection	The Integrated education style, represented by lectures and discussions in small groups. Education is based on understanding the content without memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period of 15 weeks, including a week for review and evaluation exam.	A weekly examination of the Team-Based Learning (TBL) method is conducted as a way to improve learning outcomes by promoting discussion among students
2	4 hours	Describe and evaluate psychological theories of health-related behavior. Recognize the complexity of health behavior change. Describe a model of the stages of behavior change. Identify appropriate strategies to promote behavior change. Describe the management of patients with substance abuse and other dependence issues	3 -Lecture Health related behaviour 4 -Lecture Substance misuse Group session Disability		
3	4 hours	Apply psychological theories of health-related behavior to a clinical problem. Describe and evaluate psychological theories of health-related behavior. Identify appropriate strategies to promote behavior change. Discuss the concepts of compliance, commitment and compatibility. Consider the factors that influence adherence, and how adherence to medical advice can be improved	5 -Clinical lecture Adherence Group session Health related behaviour		
4	4 hours	Describe and evaluate major theoretical approaches to understanding stress. Describe the impact of stress on health. Identify stress management approaches. Describe different strategies for dealing with the disease and how to support	6 -Lecture Stress 7 -Clinical lecture & DVD Coping Learning Disability DVD, Yuotube&reflection		

		them. Discuss the psychological and social impact of coping difficulties. Identify psychological problems often associated with chronic diseases. Identifying the obstacles that prevent patients from identifying psychological difficulties			
5	4 hours	Describe good practice in communicating well in situations where there may be barriers. Identify aspects of cultural diversity you will encounter with patients and colleagues. Begin to reflect on and challenge your own stereotypes about cultural diversity Evaluate the concept of “normality” in relation to human sexual behavior and .sexuality	8 -Clinical lecture Cultural diversity Group session Communication		
6	4 hours	Describe psychological theories of child development and consider the implications of these theories for practice. Describe good practices in good communication with children and adolescents	9 -Lecture Child psychosocial development Mid-module feedback 10 -Clinical lecture Communicating with children		
7	4 hours	Identify the main psychological treatments and identify the types of patients who may benefit from these approaches. Consider the effectiveness and acceptability of psychological treatments for patients. Describe the principles and methods of cognitive behavioral therapy	11 –Lecture Psychological intervention Group session FORMATIVE EXAM		
8	4 hours	Discuss adjusting to a terminal illness diagnosis and bereavement; Identify the diverse experiences and responses of individuals. Reflect on patients' experiences of living with a terminal illness, the 'good death', and consider the implications for practice. Consider health professionals' reactions to working with dying patients. Provide an overview of the nature, assessment, and treatment of sexual dysfunctions. Discuss how biological, psychological, and social factors influence the experience of pain. Outline of the gate control theory of pain.	12 -Lecture Dying, Death & bereavement 13 -Lecture Sexual dysfunction ONLINE LEARNING Pain		

		Describe approaches to chronic pain management..			
9	4 hours	Understand and describe psychoanalytic theory. <ul style="list-style-type: none"> • Understand and describe humanistic theory. • Know how psychologists view personality. • Know how to evaluate a person's sense of self? • Understand and describe the trait and social cognitive perspective of personality 	14 – 15 -Clinical lecture Personality 16 - :psychoanalytic and Humanistic Perceptive Group session Defense mechanism		
10	4 hours	Discuss issues of equality, diversity and discrimination. Consider different perspectives on difficult or sensitive issues, and discuss them with colleagues in a constructive way. Think about your own stereotypes and challenge them. Demonstrate basic ability to use reasoning to evaluate experience. Describe good practices in spreading bad news and communicating with patients in distress.	17 -Lecture Breaking bad news Group session Debate		
11	4 hours		Revision lecture and Q&A		
12	4 hours		1 - Lecture Introduction & BPS model stereotypical thinking. 2 -Lecture Aging Online Learning, Aging DVD ,youtube & reflection		
13	4 hours		3 -Lecture Health related behaviour 4 -Lecture Substance misuse Group session Disability		

159. Course Evaluation

The evaluation of students is consistent with the evaluation requirements that were agreed upon in the College Council and with the approval of the Council of Deans of Medical Colleges that follow the integrative approach, by approving 20% annual effort collected from the mid-semester examination. The final exam represents 80% of the grade.

Both exams include questions that can be answered with short answers, and other questions that can be answered with the best choice. The questions are distributed in a way that includes all the academic topics given to the students.

The college also has an important evaluation program that shows the Teaching College members the progress achieved in students' education levels, called the Personal and Professional Development Program.

160. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Ayers S, de Visser R (2011) <i>Psychology for Medicine</i> . Sage Publications Ltd
Main references (sources)	<u>General Psychology</u> Nolan-Hoeksema S, Fredrickson B, Loftus GR, Wagenaar WA (2009) <i>Atkinson & Hilgard's Introduction to psychology</i> . (15th Ed.) London: Wadsworth Cengage.
Recommended books and references (scientific journals, reports...)	<u>Health Psychology</u> Ogden J (2012) <i>Health Psychology: A textbook</i> . Open University Press. Abraham C, Conner M, Jones F, O'Conner D. (2008) <i>Health Psychology</i> . London: Hodder. Sarafino E. (2002) <i>Health Psychology: Biopsychosocial Interactions</i> . 4th edition, New York: Wiley. Marks, D et al. (2005) <i>Health Psychology; theory, research and practice</i> , 2 nd Edition, Sage.
Electronic References, Websites	The module website is on Google Classroom, which students are informed of at the beginning of each academic year and where they register using their official university emails.

24. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements		Number of the teaching staff	
	General	Special			Staff	Lecturer
Dr. Abbas Juma Hamdan	M.B.Ch.B.	Arab board of psychiatry				Lecturer
Dr. Heba Abdul Hussein Hassan	M.B.Ch.B.	Arab board of psychiatry				Lecturer

Dr. Qusay Nafawa Thakb	M.B.Ch.B.	board of psychiatry				Lecturer
Dr. Louay Abdel Baqi Abdel Aziz	M.B.Ch.B.	board of psychiatry				Lecturer

13. Expected learning outcomes of the program	
A–Knowledge	
Learning Outcomes	<p>1 – The module will introduce you to the main psychological factors associated with health, illness, and medical care. After an introduction to stereotypical thinking and bias,</p> <p>2 – You will be challenged to reflect on your responses to various aspects of human diversity in the context of your role as a clinician and how you need to manage these responses in order to fulfill your professional obligations.</p> <p>3 – You will be introduced to psychological theories of health–related behavior and think about the implications for practice. You will have the opportunity to develop an understanding of how people respond and adapt to diagnosis, treatment and living with chronic illness, death and bereavement.</p> <p>4 – You will also be introduced to good practice models in communicating with patients in difficult circumstances, such as breaking bad news.</p>
B–Skills	
Learning Outcomes	<p>1 – The ability to identify the main psychological factors associated with health, illness, and medical care.</p> <p>B2 – Being able to identify your challenge to reflect on your responses to various aspects of human diversity in the context of your role as a clinician and how you need to manage these responses in order to fulfill your professional obligations.</p> <p>B3 – The ability to also introduce you to good practice models in communicating with patients in difficult circumstances, such as breaking bad news.</p>
C–Ethics	

Learning Outcomes	<p>C1C1– Graduating scientific doctors and scientists who hold humanity as the basis for their work. That is, the aim of this course is to meet the relevant GMC requirements for “Doctors of Tomorrow” (2009).</p> <p>A2– Doctors know exactly how to deal psychologically and ethically with their patients.</p> <p>A3–Doctors completely protect their patients’ secrets</p> <p>A4– Doctors work as a team and do not mind cooperating with each other because they have learned to work collectively</p>
Professional Development	
Mentoring new faculty members	
<p>After reading and understanding the curriculum of the Module, the new faculty member given an overview on the integrative college system by the Dean assistant for scientific affairs, then he / she will attend lectures & sessions of the Module followed by partial participation in the sessions, to complete giving lectures.</p>	
Professional development of faculty members	
<p>The faculty members are trained on Team–Based Learning strategy which learn & asses students at different levels of knowledge. This strategy will be developed using a much more sophisticated computers & voting systems that make learning process much more successful both to faculty members & students.</p>	

course Description Form

Third stage

1. Course Name:
INFECTION AND IMMUNITY
2. Course Code:
In&Im
3. Semester / Year:
year 3 semester 5

4. Description Preparation Date:	
27/03/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 hours (30 hours theoretical lectures and 30 hours small group session). Number of units are 4 each, 15 hours equal one unit.	
7. Course administrator's name (mention all, if more than one name)	
Name: Assis. Prof. Dr. Hussein K. Abdul-Sada Email: Hussein.abdul-sada@uobasrah.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Graduating skilled medical students who must be professional doctors who have all the knowledge about diseases and their causes. • Complete knowledge of the antibiotics that can be used against pathogens. • Knowing the incidence of infections and their locations and linking them to people's medical conditions. • Complete knowledge of disease diagnosis • Integration of scientific innovations with what is presented in lectures.
9. Teaching and Learning Strategies	
Strategy	<p>Since the founding of the college in 2017-2018, the Microbiology Branch at Al-Zahraa College of Medicine has used the integrative education style of lectures and discussions in small groups. Education is based on understanding the content without memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period of 15 weeks, including a week for review and evaluation exam.</p> <ul style="list-style-type: none"> - Brainstorming education strategy - Education strategy notes series

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	<ul style="list-style-type: none"> • Understand and describe the principles of "an infection" and how an individual develops an infection • Describe how micro-organisms cause disease and some disease determinants • Describe how to identify that a patient has an infection, including history, examination and investigations • Describe the 'microbial world', the key features of bacteria, viruses and fungi and broadly how they are classified. • The main antimicrobial classes and their mechanisms of action • The principles of choosing antimicrobials for particular infections 	Introduction	Large Group Lectures And Small Group Session	Change The way Of Process Small session To team Base Learning TBL
2	4	<ul style="list-style-type: none"> • Understand and describe a model of infection • With reference to the classification of microbes described in Week 1 you should start to accumulate names and key characteristics of some common microbes. This is an on-going objective for all of the remaining weeks. • To understand how to apply the model of infection to a specific illness • Describe the pharmacokinetic / Pharmacodynamic principles of antibacterials 	An Infection Mode		

3	4	<ul style="list-style-type: none"> • Describe the principles of antimicrobial resistance and its impact on antimicrobial prescribing. • Describe the concept of antimicrobial stewardship • Apply the infection model to a patient presenting with an acute infection • Understand the features of acute sepsis • Understand the principles of Systemic Inflammatory Response Syndrome (SIRS) • Understand the mechanism by which micro-organisms trigger the inflammatory cascade • Understand the principles of supportive and specific treatment for acute sepsis • Describe features of Neisseria meningitidis and of meningococcal disease • With regard to the host response you should: <ul style="list-style-type: none"> - Describe the important barriers to infection - Describe the components of the Innate Immune system and their role in preventing infection and in the inflammatory response 	Acute Sepsis in the Emergency Department		
4	4	<ul style="list-style-type: none"> • Apply the infection model to a patient presenting with a hospital infection • To further expand the description of pathogen/person/practice/place as it applies to hospital acquired infections The small group sessions are in the standard rooms. • Understand the range of hospital acquired infections 	Hospital Acquired Infections		

5	4	<ul style="list-style-type: none"> • Describe the principles of antibiotic resistance • Describe principles relating to infection control in a hospital setting • Describe the use of Personal Protective Equipment with regard to infections in a hospital setting • To appreciate and describe some of the global concerns relating to hospital acquired infections and drug resistance. • To describe the characteristics of Clostridium difficile, its pathogenesis and management • To describe the characteristics of Staphylococcus aureus with regard to hospital acquired infections and drug resistance • To describe the characteristics of Norovirus and application of infection prevention principles • Apply the infection model to a patient presenting with an infection linked to travel • To expand the description of pathogen/person/practice/place as it applies to travel related infections • Understand the importance of a travel history • Describe Malaria and its pathogenesis • Describe Enteric Fever, including its assessment and management • To use the principles gained during the Unit to date to evaluate travel 	Travel Related Infections		
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6	4	<p>related case studies; in particular Travellers' diarrhoea</p> <ul style="list-style-type: none"> • To understand where and how to look up information on travel related infections • Describe Influenza virus and its transmission • Describe Legionella pneumophila and an example of its clinical importance With regard to Adaptive Immunity • Describe features of Antigen Presenting Cells • Describe MHC molecules in relation to microbe presentation • Describe T cells and their role with regard to infections • Describe the principles of virus structure, classification and replication • Apply the infection model to a patient with HIV • Describe the principles of infection prevention with regard to HIV • Apply the infection model to a patient with Hepatitis B • Describe the principles of infection prevention with regard to Hepatitis B 	Blood Borne Viruses		
7	4	<ul style="list-style-type: none"> • Understand the concept of microbiota • Appreciate the range of normal microbiota • Understand the importance of surface infections 	Infections on Surfaces		

8	4	<ul style="list-style-type: none"> • Describe the range and origins of surface infections on both natural and prosthetic surfaces • Describe the pathogenesis of infections at a surface • Describe the management of infected surfaces • Describe the different types of hypersensitivity reaction • Understand the pathophysiology behind the types of hypersensitivity reaction • Appreciate the clinical significance of hypersensitivity reactions • To consider the methods by which infections can spread • To appreciate the consequences of infection transmission • To consider the principles of infection prevention • To appreciate the consequences of antibiotic resistance • To consider the role of antibiotic stewardship in the reduction of the spread of resistant organisms. 	Infection Prevention		
9	4	<ul style="list-style-type: none"> • Describe the diversity of chronic infections • Consider the impact of chronic infections • Consider the role of infections in chronic health conditions • With particular attention to diabetes mellitus and cystic fibrosis • To describe the role of <i>Pseudomonas aeruginosa</i> as an important organism in cystic fibrosis. 	Chronic Health and Infections		
10	4		The Immunocompromised Host		

11	4	<ul style="list-style-type: none"> • Apply the infection model to a patient who is immunocompromised • Describe the main reasons for a patient to be immunocompromised • Understand the links between the innate and adaptive immune system and situations and illnesses where a patient is immunocompromised • To consider primary immune deficiencies linked to patterns of infection. • To further expand your knowledge of microbial pathogenesis • To consider aspergillus as a cause of fungal infection in the immunocompromised • To consider the manifestations of varicella-zoster infections in the immunocompetent and immunocompromised • To consider the pathogenesis of Staphylococcus aureus infections. 	Parasitology		
12	4	<p>Learning Outcomes</p> <p>-Exploration of some important aspects of:</p> <ul style="list-style-type: none"> • Amoebiasis • Giardiasis • Candidiasis • Hydatid cyst • Teaniasis • Enterobiasis • Ascariasis <p>• Medical fungi</p>	Fungi		

11. Course Evaluation

The evaluation of students shall be consistent with the evaluation requirements that were agreed upon in the College Council and with the approval of the Council of Deans of Medical Colleges that follow the integrative approach, by approving 20% annual effort collected from the mid-semester examination. The final exam represents 80% of the grade.

In both exams, there are two exam papers. The first consists of questions that are answered with Short Answer Questions, which are combined with the rest of the modules to form complementary questions. The Diseases and Immunity module's share is 30 marks out of

120 marks. As for the second paper, the questions are answered with the correct choice, and the module score is also 30 out of 120 degrees. In both papers, the questions are distributed in a way that includes all the academic topics given to the students.

The college also has an important evaluation program that shows the teaching staff the progress achieved in the level of students, called the Personal and Professional Development Program.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Infection & Immunity module workbook Leicester University, College of Medicine
Main references (sources)	<ul style="list-style-type: none"> Lippincott's Illustrated Reviews: Microbiology. (Third Edition 2013), Harvey, RA, Cornelissen, CN, Fisher, BD.
Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none"> Infectious Disease; Pathogenesis, Prevention and Case Studies -N. Shetty, J.W. Tang, J. Andrews. Wiley-Blackwell. A combined clinical and microbiological approach to infections Medical microbiology and infection at a glance - Stephen Gillespie and Kathleen Bamford (for a quick overview of the subject) The viral storm - Nathan Wolfe (for entertainment as well as education)
Electronic References, Websites	Google classroom

13. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assis. Prof. Dr. Hussein K. Abdul-Sada	Microbiology	Virology			Staff	Head of the Dept.
Prof. Dr. Hazim T. Thwani	Microbiology	Medical Microbiology			Staff	Lecturer
Assis Prof. Dr. Wameedh H. Abbas	Microbiology	Medical Microbiology			Staff	Lecturer
Assis Prof. Dr. Abeer L. Mohammed	Microbiology	Bacteria			Staff	Lecturer

Lecturer Dr. Ban M. Saed	Microbiology	Bacteria			Staff	Lecturer
Lecturer Dr. Shant I. Sumbat	Microbiology	Medical Microbiology			Staff	Lecturer
Lecturer Dr. Zainab Khalid	MBChB	Clinical Immunology			Staff	Lecturer
Doctor Ilham Mohammed Jawad	MBChB	Medical Microbiology/ Immunology			Staff	Attributed from Basra health directorate

1. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	<p>1– Graduating doctors who have complete knowledge of the pathogens that can infect the human body.</p> <p>2– The ability to link symptoms and pathological effects to the diagnosis in the form of illustrative diagrams (Concept Map).</p> <p>3– Identify the functional composition of pathogens (viruses, bacteria, fungi, parasites)</p> <p>4– Identifying endemic diseases found in hospitals and elsewhere.</p> <p>5– Complete knowledge of antibiotics, their classification, and their use to eliminate pathogens and diseases.</p> <p>6– Identifying the immune system in the human body and its relationship to diseases that affect humans.</p>
Skills	
Learning Outcomes 1	The ability to identify symptoms and pathological effects and link them to the patient's medical history.
Learning Outcomes 2	The ability to determine the type of samples to be examined to confirm the pathogen or immune defect.
Learning Outcomes 3	The ability to examine pathological samples with examination devices that diagnose the disease.
Ethics	
Learning Outcomes 1	Graduating scientific doctors and scientists who hold humanity as the basis of their work.

Learning Outcomes 2	Doctors know exactly how to deal psychologically and ethically with their patients.
Learning Outcomes 3	Doctors completely protect their patients' secrets
Learning Outcomes 4	Doctors work as a team and do not mind cooperating with each other because they have learned to work collectively

Course Description Form

Third stage

Course Name	.1
Reproductive Unit	
Course Code:	.2
RS	
Quarterly / Yearly:	.3
Quarterly	
The history of preparation of this description	.4
2025 / 3 /21	
Available Attendance Forms:	.5
presence only	
Number of Credit Hours (Total) / Number of Units	.6
(Total):	
60 hours per semester (30 hours theoretical lecture and 30 hours practical in small groups) *Number of units 4 where every 15 hours represents one unit	
Course administrator's name and email (if more than one name is mentioned)	.7
Name: Dr. Marwa Sadiq Mostafa Email : marwa.sadiq@uobasrah.edu.iq	
Course Objectives –8	
The overall goal of the module is that the student must understand the processes of human reproduction from the production of gametes to the establishment of life. Independent in a newborn. The student must understand common problems and disorders of the male and female reproductive system, and contraceptive mechanisms and sexual transmission of diseases.	
9– Teaching and Learning Strategy	
Since the establishment of the college in 2017-2018, the Microbiology Department at Al-Zahra College of Medicine has been using the integrative education style represented by lectures and discussions in small groups. Education is based on understanding the content without memorizing alone, which makes it easy for the student to remember the content. A two-	

hour lecture is given separately followed by a small group discussion of the content of these two lectures and the identification of all clinical cases related to the topic of the two lectures. This is done for each week for a period of 15 weeks, interspersed with a week for review and evaluation exam.

- Brainstorming education strategy**
- Education Strategy Notes Series.**

Course Evaluation –12

The evaluation of students is consistent with the evaluation requirements agreed upon in the College Council and is attached to the Council of Deans of Medical Faculties that follow the integrative approach by adopting 20% annual endeavor obtained from the mid-semester exam. The final exam is representative of 80% of the grade. In both exams, there will be two papers for the first exam, which are questions that are answered with short answers, which are with the rest of the modules to form complementary questions, the share of the module alone reproduction is 30 degrees out of 120 degrees. As for the second paper, the questions that are answered by the correct choice are also 30 out of 120 degrees. In both papers, the questions are distributed in a way that includes all the topics given to the students. The college also has an important evaluation program that explains to the teaching staff the development in the level of students called the Personal and Professional Development Program

13- Structure of course					
Evaluation method	Learning method	Unit or subject name		Required Learning Outcomes	Hours week
Weekly exam on the TBL team-based learning method as a way to improve learning outcomes by	The integrative learning style represented by lectures and discussions in small groups. Education is based on understanding the content without memorizing alone, which makes it easy for the student to remember the content. A two-hour lecture is given separately followed by a small group discussion of the content of these two lectures and the identification of all clinical cases related to the topic of the two lectures. This is for	Lecture 1: Origion of the sexes Lecture 2: Origion of the gametes		Describe the origin of the germ cell and the development of gonads in males and females. Description of the internal and external genitalia in males and females. Describe the development of the internal and external genitalia of male and female and their control by gonadolas. Description of common abnormalities in the development of the genitals. List of the main reproductive hormones. Describe the microstructure of the testicle, its main divisions and cell types. Describe the process of spermatogenesis.].Description of the sperm cycle and waves	4hours .23

promoting discussion among students.	each week and for a period of 15 weeks, interspersed with a week for review and evaluation exam	Lecture 1: hypothalamic pituitary gonadal axis. Lecture 2: The menstrual cycle.	_List the hormones involved in reproduction secreted by the hypothalamus, anterior and posterior pituitary gland, and gonads. • List of cell types in the anterior pituitary gland that produces any hormones. • Describe the control of gonadotropin secretion by the hypothalamus. Describe the work of gonads on the testicles and ovaries. • List of action of reproductive steroids in females and males. • Describe the changes that occur in the ovaries during the ovarian cycle and describe the changes in the endometrium and mention the phases of the menstrual cycle. • Describe the pattern of gonadotropin secretion and reproductive steroids during a normal menstrual cycle. • describe the mechanisms of the hypothalamus and pituitary gland underlying cyclic gonadotropin secretion and interactions between the ovaries and hypothalamus/pituitary gland Recall the actions of estrogen and progesterone in a non-pregnant woman. • Describe the effects of testosterone in males. • Explain how testosterone release is regulated by monitoring reactions.		.24
		Lecture 1: Puberty and menopause. Lecture 2:	-describe the sequence of physiological and anatomical changes that occur in males and females at puberty,		.25

		Abnormality of the menstrual cycle.	<p>-Describe the mechanism behind these changes at puberty -Describe the hormonal changes that lead to menopausal features</p> <ul style="list-style-type: none"> - List the advantages and disadvantages of hormone replacement therapy in postmenopausal women - describe common menstrual problems and how to evaluate and manage them in principle <p>outline terms used to describe common menstrual abnormalities, describe the effect of the menstrual cycle,</p> <ul style="list-style-type: none"> - Changes in control in the hypothalamus region of GnRH secretion - Changes in anterior pituitary function <p>-Changes in ovarian function</p> <ul style="list-style-type: none"> - Changes in uterine function <p>Distinguish between primary and secondary amenorrhea</p>		
		Lecture 1:clinical anatomy of the female	Describe the basic anatomical structure of the female reproductive system		.26

		reproductive system. Lecture 2: Pelvic floor. Lecture 3: Pelvic osteology.	. describe the functional anatomy of each structure in it in relation to reproduction, Describe clinical investigations and evaluations Imaging techniques – Linking anatomy to common clinical problems. Describe the structure and function of the pelvic floor and name the main muscle groups -Description of the function of the perineal body - List the causes and risk factors of pelvic floor dysfunction Describe the outline of available treatments for pelvic floor dysfunction. Description of the bone structure of the pelvis in females and males - Identify the bone features formed pelvic entrance and pelvic outlet - Description of the larger and smaller aquarium		
		Lecture 1: Clinical anatomy of male reproductive system. Lecture 2: Histological review of the male reproductive system	describe and identify the main anatomical structures of the male reproductive system . describe the anatomy of each structure with blood attached to it blood vessels and lymphatic vessels . Clinical examination and evaluation (imaging techniques) . Common clinical conditions Description of the functional tissues of the structures that make up the male reproductive system.		.27
		Lecture 1:sexually	Description of the epidemiology of sexually transmitted diseases. List the most common		.28

		transmitted infection. Lecture 2: pelvic inflammatory disease.	sexually transmitted diseases, identifying the organism causing the infection in each case. Provide differential diagnosis of common clinical syndromes and describe recent trends in the incidence of sexually transmitted diseases. Describe clinical presentation, diagnosis and management of chlamydia infection. Description of clinical presentation, diagnosis and management of gonorrhea. Description of clinical presentation, diagnosis and management of genital herpes. Description of clinical presentation, diagnosis and management of genital warts. Describe the clinical presentation, diagnosis and management of other STDs.		
		Lecture 1: conception. Lecture 2: contraception. Lecture 3: Subfertility.	- Describe the main methods of contraception, their advantages and disadvantages. - Describe the physiological processes involved in emission - Describe the physiological processes involved in penile erection . - Describe the physiological changes in females that facilitate the process of intercourse - Description of the ejaculation mechanism - Describe the process of sperm transfer through the cervix and uterus Describe sperm condensation processes and terminal particle reaction. - Describe the mechanisms involved in the process of fertilization of the egg		.29
		Lecture 1: maternal physiological	-Describe the main physiological changes that occur to the mother during normal pregnancy		.30

		changes in pregnancy. Lecture 2: Placental function and dysfunction.	<p>Describe how a mother's adaptation to pregnancy and fetal support affects the mother's nutritional requirements</p> <p>Describe how control of a mother's blood glucose level is affected by pregnancy and describe possible clinical consequences.</p> <p>_ Description of the concept implantation of the endometrium</p> <p>_ Describe the structure of the placenta, which is adapted for the exchange of substances between the blood of the fetus and the mother</p> <p>_ Description of the arrangement of fetal blood vessels within the placenta</p> <p>_ Description of factors affecting the negative diffusion of substances through the placenta</p> <p>.identify the main substances that are actively transported through the placenta, describe the role of the placenta as an endocrine organ that supports pregnancy</p> <p>_ Description of the hormonal basis of the pregnancy test</p> <p>Describe the function of the placenta as a provider of neonatal negative maternal immunity.</p>		
		Lecture 1: Fetal physiology,growth and development.	<p>-Determination of the fetal period</p> <p>- Describe the pattern of increasing fetal size, weight and body ratio during pregnancy</p> <p>Describe important events in the development of each of the major body systems .</p> <p>_ Describe the factors that affect the ability of the newborn to survive - _ Describe the effects of malnutrition on the fetus during early and late pregnancy</p> <p>-Description of fetal kidney function</p> <p>–describe the processes involved in controlling amniotic fluid volume and composition</p> <p>- Description of fetal circulation and changes that occur at birth</p> <p>-Description of fetal blood oxygen transfusion</p>		.31

		Lecture 1:parturition Lecture 2: Labor and its abnormalities.	. Determination of the stages of labor Describe the processes needed to create a birth canal and their clinical evaluation. Describe the function and mechanisms of cervical maturation. . describe the characteristics of uterine smooth muscles that facilitate childbirth, Describe the natural physiological processes that begin labor, describe the immediate physiological changes in the newborn that enable him to lead an independent life. . Describe the processes that normally limit blood loss in the mother after birth. Description of the clinical evaluation of the female bone pelvis Describe the outline of the most common embryonic presentations Describe the principles of stimulating action		.32
		Lecture 1:lactation. Lecture 2:presentation of breast disease.	Description of the group of common breast diseases . Description of the differences between physiological and pathological conditions of the patient released . Describe the clinical manifestations of various breast conditions Describe different breast disease conditions in general and with regard to age . Describe how to screen and diagnose breast lesions . Describe the traits and significance of benign breast changes . Describe the features and importance of benign breast tumors. Describe the advantages and importance of breast cancer		.33

			<p>– Describe the types of breast cancer, breast cancer risk factors, its type of metastasis of breast cancer, and principles of breast cancer treatment</p>		
		<p>Lecture 1:tumor of the male reproductive system. Lecture 2:tumors of the female reproductive system.</p>	<p>Pathological features, epidemiology, possible pathogens, presentation, prevalence, principles of treatment of vulvar tumors Description of screening principles for cervical cancer Description of histological manifestations of cervical cancer Description of factors affecting the diagnosis of cervical cancer Description of the main features of pregnancy tumors Description of pathological manifestations, presentation and prognosis of ovarian cancer Description of pathological manifestations, presentation and diagnosis of endometrial adenocarcinoma Description of pathological features, presentation and diagnosis of tumors of myometrium tissue</p> <p>Pathological features, epidemiology, possible etiology, symptom, prevalence and principles of treatment of vulvar tumors. _Description of screening principles for cervical cancer . Description of histological manifestations of cervical cancer . Describe the factors that affect the diagnosis of cervical cancer 5. Description of the main features of pregnancy tumors . Description of pathological manifestations, presentation and prognosis of ovarian cancer . Description of pathological manifestations, presentation and diagnosis of endometrial disease Cancer Description of pathological manifestations, presentation and diagnosis of myometriomas.</p>		34

Teaching –10	
<p>Student workbook and record book</p> <p>Due to the scope of this unit (anatomy, histology, physiology, embryology, microbiology, etc., There is not a single recommended text. You should therefore support your learning from Over the reference to the following:</p> <p>Basic texts, as detailed in the list Reading stage 1 , Besides the recommended supplementary reading:</p> <p>Basic cloning (6th edition 2007,) Johnson, M.H. & Everett, BG, Blackwell Science.</p> <p>Detailed description of the physiology of reproduction Reproductive System at a Glance,) 3rd Edition Third 2010 (, Hefner , LG , Blackwell Science.</p> <p>A very basic review text.</p> <p>The following texts are included in the recommended texts</p> <p>It is for stage 2. So this module booklet contains a reading</p> <p>Suggested texts to help you develop your understanding of science</p> <p>Basic medical in a clinical context.</p> <p>obstetrics and gynecology at a glance , (4th edition, 2013,) Schorge, JO and Norwitz , E , . Blackwell Science .</p> <p>Basics of Hacker & Moore</p> <p>For Obstetrics and Gynecology, (Edition 5 2010 (, Neville F. Hacker Joseph C. Gambon, Calvin J. Hubble, 5th ed. Saunders. Elsevier.</p> <p>Fundamentals of Obstetrics and Gynecology (4th Edition 2003), Symonds and Simmonds, Churchill Livingstone.</p> <p>Obstetrics by ten teachers, (Edition) 19 , 2011 (, Kenny, L. C & Baker b. n. , Hodder Arnold.</p> <p>Gynecology by Ten Teachers (19th edition, 2011), Kenny, L. C. & Baker B. n. , Hodder Arnold.</p> <p>These should not be used as a basic scientific text.</p> <p>Requirements</p>	<p>To read the required:</p> <ul style="list-style-type: none"> • Basic texts • Course Materials <p>آخر.</p>
	<p>Special requirements (including, for example, workshops</p>

	Work, periodicals and IT programs and websites)
	Community facilities (including, for example, guest lectures, internships, and field studies)

1. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements /Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Dr. Marwa Sadiq Mustafa	M.B.CH .B	Family physician			Staff	---
Prof. Ass. dr.Jawad Ramadhan	M.B.CH .B	General surgeon			Staff	
Prof.Ass.dr. Nehaia Manhi	physiologist	physiologist			Staff	
3A.M.D. Hadil Salman.	physiologist	physiologist			Staff	
4D. Ansam Manzaal.	M.B.CH .B	Family physician				Lecturer
5.Dr. Ali Naji	M.B.CH .B	Family physician				Lecturer

-1أ. Knowledge and understanding

Simply describe the embryonic and embryonic development of the female and male reproductive systems

- Describe the sequence of anatomical and physiological changes at puberty and the mechanisms of these changes
- Describe the anatomy of the male reproductive system, testicular tissue and accessory organs, and the formation of male gamete
- Description of the anatomy of the female reproductive system, tissues of the ovaries, uterus, cervix, vagina and breast
- Description of the ovarian and uterine cycles
- Describe and explain endocrine control in the menstrual cycle and describe in outline common menstrual abnormalities
- Describe the changes in menopause and their mechanisms Describe the processes involved in sexual intercourse
- Describe the mechanism of action of common forms of contraception List the causes of male and female infertility
- Description of fertilization and implantation processes
- Describe the roles of the placenta in maintaining pregnancy and describe the adaptations of the mother and fetus to pregnancy
- Describe the normal pattern of fetal development and the principles of detecting fetal abnormalities
- Describe the processes involved in normal labor, delivery and some common labor problems
- Describe lactation mechanisms
- Description of breast disorders, especially breast cancer and its treatment Description and detection of common sexually transmitted diseases
Its treatment is the description of common tumors of the female (and male) reproductive system.

B1 – Teaching and learning methods
Large group lectures and small group discussion

Emotional and value goals)
A1- . Thinking skills Dr. Ed. General and transferable skills (other skills related to employment and personal development)

Course Description Form

Third stage

1. Course Name:	
Head and neck	
2. Course Code: nothing	
nothing	
3. Semester / Year:	
Semester	
4. Description Preparation Date:	
2025 / 3 /14	
5. Available Attendance Forms: My presence only	
My presence only	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 semester hours (60 theoretical lecture hours and 30 small group hours)	
*The number of units is 6, where every 15 hours represents one unit	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr.. Ali Majeed Abboud Al-Taie Email: alimajeedabboodaltaie@uobasrah.edu.iq	
8. Course Objectives	
Course Objectives	1 –The general goal of this course is to provide the student with the knowledge and skills necessary to understand embryonic development, applied anatomy, and physiology of the components of the head and neck, with an introduction to their common diseases.

	<p>2– Training the student on the correct scientific method for obtaining the patient’s medical history and conducting a clinical examination of various areas of the head and neck, such as the nose, eyes, neck, etc.</p> <p>3–Helping the student to begin analyzing medical information to derive a preliminary and final medical diagnosis using a team–based and small–group teaching method.</p>
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9. Teaching and Learning Strategies

Strategy	<p>The surgery branch, as is the case in other clinical branches, relies on integrative curriculum adopted by Al-Zahraa College of Medicine since founding in 2017-2018, which is represented by theoretical lectures and small groups as an elegant way to solve clinical problems. The focus is on the content and not just memorization, which makes the student able to analyze medical data and deal with it. The correct scientific approach to treating medical conditions, especially emergency ones.</p> <p>The course is divided into two parts, the first part is theoretical, consisting of twelve, two hours per week</p>
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		Understanding the anatomy of the head, neck, and neck regions, fractures of the skull and cervical vertebrae, diagnostic methods, required examinations, types of conservative and surgical treatment, complications, how to prevent them, and how to deal with them if they occur.	Region and compartment of head and neck.	The integrative education style consists of lectures and discussions in small groups in a way that solves clinical problems. Education is based on understanding the content and not just memorization, which makes recalling the content easy for the student. A two-hour lecture is given, followed by a discussion in small groups about the content of those lectures	The performance of students is evaluated daily through individual evaluation and team evaluation in implementing the solution to the clinical problem, as well as weekly at the end of the week a written examination in the subject of the previous week. Practical performance
2		Understanding the anatomy of the eye and its socket and some common diseases. External eye examination A practical laboratory to explain the anatomy of the bones of the skull, cervical vertebrae, face, and eyeballs.	Applied anatomy and common disorders of eyes and orbit.		

				and identifying all clinical cases related to the topic of the lectures. Followed by practical training in the anatomy laboratory on the topic of the previous week's lectures. The weekly schedule also includes clinical training classes on the basics of recording medical history and standard clinical examination of the head and neck organs and senses	is evaluated by testing their abilities in dealing with the medical cases that the students faced during the day and how to evaluate and deal with them. This is done through a panel discussion at the end of the day
3		Knowing how to take a medical history and conduct a clinical examination for eye and head diseases and injuries, and how to deal with critical cases in the emergency department	Osteology of skull and cervical spine Dissection demonstration anatomy of face, parotid region and muscles of mastication. Examination of eye.		
4		Understanding the anatomy and functions of the ear, the temple bone, the jaw joint, and the area under the temporal bone, diagnostic methods, required tests, types of conservative and surgical treatment,	Applied anatomy and common disorders of ears and temporal bone. Applied anatomy of TMJ and infratemporal fossa		
5		A practical laboratory to explain the anatomy of the ear, the temporal bone, the jaw joint, and the area under the temple bone. Knowing how to take a medical history, conduct a clinical examination for ear diseases and injuries, and how to deal with critical cases in the emergency department.	Dissection demonstration of anatomy of ears, temporal bone, TMJ and infratemporal fossa History and examination of ear.		
6		Understanding the anatomy, functions, and some common diseases of the nose and sinuses, diagnostic methods, required tests, types of conservative and surgical treatment, complications, how to prevent them, and how to deal with them if they occur.	Applied anatomy and common disorders of nose and paranasal sinuses.		

7		A practical laboratory to explain the anatomy of the nose and sinuses. Knowing how to take a medical history, conduct a clinical examination for ear diseases and injuries, and how to deal with critical cases in the emergency department.	Dissection demonstration of anatomy of nose and paranasal sinuses. History and examination of nose and paranasal sinuses.		
8		Understanding the embryonic development of the head, neck, and middle organs and some diseases and congenital malformations resulting from abnormalities during this process.	Overview of development of head and neck. Development of midline structures.		
9		Understanding the anatomy, functions, and some common diseases of the muscles, superficial organs, and lymphatic vessels of the head and neck, diagnostic methods, required tests, types of conservative and surgical treatment, complications, how to prevent them, and how to deal with them if they occur.	Muscles and superficial viscera of neck. Lymphatics of head and neck.		
10		Understanding the anatomy, functions, and some common diseases of holes in the skull and cranial nerves, diagnostic methods, required tests, types of conservative and surgical treatment, complications, how to prevent them, and how to deal with them if they occur.	Applied anatomy and common disorders of pharynx and larynx.		
11		Understanding the anatomy, functions, and some common diseases of holes in the skull and cranial nerves, diagnostic methods, required tests, types of conservative and surgical treatment, complications, how to prevent them, and how to deal with them if they occur.	Dissection demonstration of anatomy of neck, pharynx and larynx. History and examination of neck.		
12		A practical laboratory to explain the anatomy of the cranial openings and cranial nerves Knowing how to take a medical history, conduct a clinical examination for ear diseases and injuries, and	Cranial foramina. Cranial nerves		

		how to deal with critical cases in the emergency department.			
13		Presentations attended presented by students under the supervision of module professors.	Dissection demonstration of anatomy of cranial nerve foramina and cranial nerve. History and examination of cranial nerve.		
14			Student presentation		
15			Review		

11. Course Evaluation

The evaluation of students shall be consistent with the evaluation requirements that have been agreed upon in the College Council and with the approval of the Council of Deans of the Colleges of Medicine that follow the integrative system, by adopting 20% of the annual endeavor obtained from theoretical and clinical examination (mid exam), and the final examination shall represent 80% of the examination.

In both exams, the theoretical exam is conducted in the form of clinical problem cases and consists of two papers. The first paper is in the way of choosing the most appropriate answer of 4-5 options and the second is short answers paper, which are combined with the rest of the blocks to form complementary questions. The share of the musculoskeletal system block in each of the two papers is 30 marks out of 120 marks. In both papers, the questions are distributed in an appropriate manner. It includes all academic subjects given to students

The clinical exam, it is done by using the OSCE station method. In addition, each student must submit a logbook containing the skills he/she learned during the clinical training, and this is considered a condition for the student to fulfill the requirements for completing the curriculum approved in the block.

The college also has an important evaluation program that shows the teaching staff the progress achieved in the level of students, called the Personal and Professional Development Program (PPDP).

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Bailey & Love's Short Practice of Surgery
Main references (sources)	Moore, K.L. and Dalley, A.F. Clinically Oriented Anatomy
Recommended books and references (scientific journals, reports...)	Scott-Brown's Otorhinolaryngology and Head and Neck Surgery
Electronic References, Websites	

Course Description Form

Third stage

1. Course Name:	
People and Diseases	
2- Course Code:	
3- Semester / Year:	
Semester	
4- Description Preparation Date:	
24/ 3/ 2025	
5- Available Attendance Forms:	
Attendance	
6- Number of Credit Hours (Total) / Number of Units (Total)	
90 hr. (30 theory and 60 practical)	
7- Course administrator's name (mention all, if more than one name)	
Name: Rajaa Ahmed Mahmoud Email: raja.mahmoud@uobasrah.edu.iq Name: Ziyad Tariq Maki Email: ziyad.maki@uobasrah.edu.iq	
8- Course Objectives	
Course Objectives	<ul style="list-style-type: none"> The course title indicates that disease is experienced by people and signals the importance of considering the patient's perspective. Provide the students with the necessary knowledge and skills to ensure that they are ideally prepared for the responsibilities they will be carrying in their later professional life. <p>Students should integrate their understanding of basic medical sciences, applied medical sciences, social and behavioural sciences and clinical skills by means of supported and self-directed longitudinal study of a small number of patients and their families.</p>
9- Teaching and Learning Strategies	
Strategy	The module includes both lectures & practical training in health facilities.

	<p>During the course period, students will have the lecture, seminars in addition to attending practical sessions in Basrah Health facilities according to the instructors' selected places & agenda.</p> <p>By the end of the course, they will be asked to transform their weekly reflections into an essay dissertation in which they will be assessed based on what they achieved.</p>
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10– Course Evaluation

Students are evaluated based on:

- Their attendance
- Their active participation during the implementation of the module
- Submission of a final reflection that points out their achievement of the overall learning objectives.
- Final Grade of each students include Pass/Fail assessment result based on their (Partially, Totally, NOT achieved learning objectives)/

11– Learning and Teaching Resources

Required textbooks (curricular books, if any)	Bonita, Ruth, Beaglehole, Robert, Kjellström, Tord & World Health Organization. (2006). Basic epidemiology, 2nd ed
Main references (sources)	Bob Mash, Handbook of Family Medicine. Oxford (2018). Fourth Edition
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

12- Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4hr.	Develop an understanding of the holistic principles of medical practice by which all illness is recognised to have physical, social and psychological dimensions.	<u>Week 1:</u> What do you think being a doctor means?	Presentations: the course include 15 presentations that will allow the student to contrast diseases in different body systems. Course Seminars: During the whole course period, student will have different seminar subjects as what included in the subjects each week	By the end of the course, students will be asked to transform their weekly reflections into an essay dissertation in which they will be assessed based on what they achieved.
2	4hr.	Develop a practical understanding of the roles of health and social care professionals and others caring for patients.	<u>Week 2:</u> Accessing Patient's records Chronic Diseases EPI MCH		
3	4hr.	Develop an appreciation of impact of health and social policy issues upon the care of patients.	<u>Week 3:</u> The health care process in Primary, Secondary Tertiary care.		

				3. Student's Reflective Diary	
4	4hr.	Describe and explain the relationships between <ul style="list-style-type: none"> - basic and applied medical sciences - social and behavioural sciences - clinical skills relevant to the full understanding of the patients and families you have studied	<u>Week 4:</u> The health care process in Primary, Secondary & Tertiary care.		
5	4hr.	Use communication skills effectively to build a relationship with a small number of patients and learn about their health, illness and family and social circumstances.	<u>Week 5:</u> How do patients present?		
6	4hr.	Describe and evaluate the impact of illness upon individuals and families	<u>Week 6:</u>		

			The doctor-patient relationship		
7	4hr.	Describe and evaluate the changing roles of medical practitioners, other health and social care practitioners and patients in the promotion of patient well-being	Week 7: Health beliefs and health myths		
8	4hr.	Identify and discuss issues of health and social policy relevant to their chosen area of study	Week 8: The doctor-patient relationship		
9		Record in a meaningful way the students' reflections on their experiences during the module, and how their future behaviour as	Week 9: Evidence and Research		
10	4hr.	clinicians will benefit from those reflections.	Week 10: Evidence and Research		
11	4hr.	Develop skills of accessing and integrating information from a wide variety of sources, including consultations with patients, material	Week 11: Links between learning in core modules and patients studied		

		from other parts of the curriculum, a			
12	4hr.	secondary and primary resources	<u>Week 12:</u> Links between learning in core modules and patients studied		

Course Description Form

Third stage

1- Course Name:
health and disease in Society
2- Course Code:
HaDSoc
3- Semester / Year:
Semester
4- Description Preparation Date:
27/6/2025
5- Available Attendance Forms:
actual attendance
6- Number of Credit Hours (Total) / Number of Units (Total)
60 semester hours (30 theoretical lecture hours and 30 small group hours) The number of units is 4, where every 15 hours represents one unit
7- Course administrator's name (mention all, if more than one name)
Name: Rajaa Ahmed Mahmoud Email: raja.mahmoud@uobasrah.edu.iq Name: Ziyad Tariq Maki Email: ziyad.maki@uobasrah.edu.iq
8- Course Objectives

Course Objectives	<p>1.Enable medical students to reach the standards required to become registered as doctors, as specified in Tomorrow's Doctors. This is done by providing a comprehensive grounding in social theory and research on the social origins and consequences of health and disease; Relationships between patients and health professionals; Evidence and theories about disease prevention, including screening; Evidence-based health care theory and practice; Quality and safety in health care; health care outcomes; Organization, financing and management of health care; and a public health perspective on health.</p> <p>2.Apply much of the knowledge and skills that medical students will gain in this unit will provide the foundation for lifelong learning, which will be a requirement no matter what area of medicine you eventually specialize in.</p>
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9- Teaching and Learning Strategies

Strategy	<p>Since the founding of the college in 2017-2018, the Community Health and Family Medicine Branch at Al-Zahraa College of Medicine has used the integrative education style of lectures and discussions in small groups. Education is based on understanding the content without memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period of 15 weeks, including a week for review and evaluation exam.</p> <ul style="list-style-type: none"> - Brainstorming education strategy - Education strategy notes series
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10- Course Structure

Week	Hrs.	Required Learning Outcomes	Unit or subject name	Learning method
1	4	<p>1. Describe the structure, purposes and organisation of the Module</p> <p>2. Recognise quality and safety in healthcare as an important responsibility of doctors</p> <p>3. Explain what clinical</p>	Lecture 1: Introduction to Module; Quality and Safety in Healthcare	Integrated education style, represented by lectures and discussions in small groups. Education is based on understanding

		<p>governance means and its implications for the work of doctors</p> <p>4. Describe evidence demonstrating problems of quality and safety in healthcare</p> <p>5. Describe ways of conceptualizing quality in healthcare</p> <p>6. Briefly describe policies and organizations for encouraging quality in health system.</p> <p>7. Explain how a systems-based approach can promote quality in health care</p>		<p>the content without memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period of 15 weeks, including a week for review and evaluation exam</p>
2	4	<p>1-Understand the concept of epidemiology and its relation to clinical research.</p> <p>2- Describe a range of social science methods for investigating health and illness.</p> <p>3- Distinguish between quantitative and qualitative methods, and identify appropriate study designs for different types of research questions.</p> <p>4- Offer a critical</p>	Lecture 2: Methods and Evidence	

		<p>perspective on the rise of the evidence-based medicine movement.</p> <p>5-Discuss, using social science theory and evidence, some of the difficulties of getting evidence into practice.</p>		
3	4	<p>1-Define health, health inequalities</p> <p>2-Describe the relationship between health and social variables</p> <p>3-Describe and evaluate some explanations for health inequalities</p> <p>4- Discuss how to reduce health inequalities</p>	Lecture 3: Inequalities in health	
4	4	<p>1. Define what is meant by the terms —lay beliefs, lay epidemiology —sick role and —lay referral system</p> <p>2. Explain why understanding lay beliefs is important in medical practice</p> <p>3Distinguish between primary, secondary, and tertiary prevention, and between three health promotion strategies</p> <p>4. Illustrate some of the dilemmas raised by health promotion</p> <p>5. Explain the relevance of lay beliefs to health promotion interventions</p> <p>6.Recognize the difficulties of evaluating</p>	Lecture 4: Lay Beliefs; Health Promotion	

		outcomes of health promotion		
5		<p>1-Understand the epidemiology of chronic illness.</p> <p>2- Describe sociological research on how chronic illness and/or disability impacts on people's life and identity.</p> <p>3- Explain what is meant stigma.</p> <p>4- Explain different ways conceptualizing disability</p> <p>5- Discuss reasons for the rise of patient-based measures as outcomes of health care.</p> <p>6- Recognize why the measurement of health-related quality of life (HRQoL) is seen as interesting and necessary.</p> <p>7- Describe approaches to and difficulties in, measuring health, health care outcomes, and HRQoL.</p> <p>8- Discuss critically at least one published instrument for the measurement of HRQoL.</p> <p>9- Assess the suitability and value of HRQoL instruments in a range of areas.</p>	Lecture 5: Sociological Approaches to Chronic Illness and quality of life	
6	4	<p>1. Define screening.</p> <p>2. List the criteria for implementing a screening programme, including those relating to the condition, the</p>	Lecture 6: Screening	

		<p>test, the treatment, and the programme.</p> <p>3. List the advantages and disadvantages of screening for disease.</p> <p>4. Describe the difficulties of evaluating the effectiveness of screening programmes.</p> <p>5. Give examples of screening programmes in the Iraq.</p> <p>6. Explain sociological critiques and critical perspective of health promotion and screening.</p>		
7	4	<p>1. Outline in brief the history of IHS</p> <p>2. Describe the current structure and functions of IHS</p> <p>3. Give examples of doctor's management activities and functions</p>	Lecture7: Iraqi Health Services (IHS) – Structure & Management	
8	4	<p>1-Discuss the impact of scarce resources on the work of doctors.)</p> <p>2-Explain the inevitability of rationing in health care systems.)</p> <p>3-Describe a range of approaches to resource allocation in healthcare.)</p> <p>4-Explain and distinguish between cost-effectiveness, cost-benefit, cost-utility, and cost-minimization analyses.</p> <p>5-Consider the advantages and</p>	Lecture 8: Resource Allocation and Healthcare Economics	

		disadvantages of using QALYs as a method of resource allocation.		
9	4	<p>1-Describe the professionalisation of medicine.</p> <p>2- Assess regulation of doctors in historical context.</p> <p>3- Describe evidence and theory about socialisation of doctors into the medical profession.</p> <p>4-Critically evaluate evidence and theory on challenges to the medical profession.</p>	Lecture 9: Professions and professionalization	
10	4	<p>1-Describe different sociological approaches to understanding the patient-professional relationship</p> <p>2-Distinguish between explanatory approaches and aspirational approaches of the doctor-patient relationship</p>	Lecture 10: Patient-Professional Relationships	
11	4	<p>1. Understand the epidemiology of complementary therapies.</p> <p>2. Suggest reasons for the increased interest in complementary therapies and assess what implications this may have for medical practice.</p> <p>3. Describe the theory and practices underlying at least one complementary therapy.</p>	Lecture 11: Complementary Therapies; Patient Perspectives	

12	4		HaDSoc-Module Revision Issues	
11- course Evaluation				
<p>The evaluation of students shall be consistent with the evaluation requirements that have been agreed upon in the college council and with the consent of the council of deans of medical colleges that follow the integrative approach, by adopting 20% annual endeavors obtained from multiple quizzes. The pattern of questions shall be similar to the final examination. The final exam represents 80% of the grade</p> <p>There will be two exam papers: the first consists of questions that can be answered with short answers, which are combined with the rest of the modules to form complementary questions. The share of the health and disease in population module is 30 marks out of 120 marks. As for the second paper, the questions are answered with the best selected answers, and the module score is also 30 out of 120 degrees. In both papers, the questions are distributed in a way that includes all the academic topics given to the students.</p> <p>The college also has an important evaluation program that shows the teaching staff the progress achieved in the level of students, called the Personal and Professional Development Program.</p>				
12- Learning and Teaching Resources				
Required textbooks (curricular books any)		Health and disease in population module workbook, Leicester University, College of Medicine.		
Main references (sources)		The recommended textbook is: Epidemiology by leon Gordis.		
Recommended books and references (scientific journals, reports...)		<p>-Vaughan,J.P.&Morrow,R.H.(1989). Manualof Epidemiology for District Health Management.Geneva :WHO.[ISBN 92 4154404 X] [Online], Available:http://whqlibdoc.who.int/publications/924154404x.pdf [Downloaded20/08/2010].</p> <p>- Katzenellenbogen,J.M.,Joubert,G.& AbdoolKarim,S.S.(1997). -Epidemiology :AManualforSouthAfrica. CapeTown:Oxford University Press.[ISBN:0195713087]</p>		

	-Beaglehole, R., Bonita, R. & Kjellstrom, T. (1993). Basic Epidemiology. -Geneva: WHO. [ISBN9241544465]
Electronic References, Websites	Google classroom, which students are informed of at the beginning of each academic year and register with their official university emails

13-Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Rajaa Ahmed Mahmmod	PhD. Community medicine					Lecturer
Ziyad Tariq Maki	Board in Family medicine					Lecturer
Nada Hasan Abdulraheem	Board in Family medicine					Lecturer
Huda Hasan Muhaibes	Master in Community medicine					Lecturer
Raya Habib Abdulemam	Board in Community medicine					Lecturer

Juhoud Abdulsamad Molan	Board in Family medicine					Lecturer
Mayada abduljalel	Master in Community medicine					Lecturer
Elaf mohammedsalih Reda	Board in Community medicine					Lecturer
Zainab Barakat Hussain	Board in Family medicine					Lecturer

14 Expected learning outcomes of the program

Knowledge

- 1 Knowledge of social concepts of health and disease.
 - Understand the social factors that contribute to disease, disease course and treatment success, including issues related to health inequalities and the effects of poverty and wealth. Discuss the social aspects of behavior change, treatment compliance, and health promotion tips.
 - Knowledge of basic principles of health improvement including broader determinants of health, health risks associated with disability, race, gender, age, and disease surveillance.
 - Knowledge of basic principles of health policy development and health services including issues related to health economics, equity and clinical guidelines.
 - Knowledge of the principles of primary, secondary and tertiary prevention of disease.
 - Formulate relevant research questions in the social sciences and design appropriate studies to address them.

Skills

- Ability to apply social scientific methods in health and health care research.
- Ability to describe measurement methods to improve clinical effectiveness and demonstrate improvements in care.
- Ability to apply sociological principles, method and knowledge in medical practice.

	<ul style="list-style-type: none"> • Apply theoretical frameworks in sociology to explain the diverse responses of individuals, groups, and societies to health and disease. • Demonstrate knowledge of professional regulation laws and regulations through the Ministry of Health relevant to medical practice.
	Ethics
	<ul style="list-style-type: none"> • Graduating doctors who are able to work within the framework within which medicine is practiced in Iraq, including the Ministry of Health, the management and organization of health care delivery, and the structures and functions of the Iraqi health system. • Graduating doctors who are familiar with the basics of maintaining patient safety, including understanding how errors occur, applying the principles of quality assurance, and risk management. • Doctors who are able to apply ethical issues in conducting medical research. • Doctors capable of assuming administrative responsibilities while maintaining the team spirit.

Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

Course Description Form

Third stage

161. Course Name:	
Nervous System Module	
162. Course Code:	
Nerv.sys.	
163. Semester / Year:	
Second Semester/ third stage	
164. Description Preparation Date:	
27 / 06 / 2025	
165. Available Attendance Forms:	
Attendance Only	
166. Number of Credit Hours (Total) / Number of Units (Total)	
90 Credit hours (30 hours Lectures & 30 hours Small Groups Learning 30 clinical training) * The Number of Units are 5 (1 Unit is equal to 15 Credit Hours/ Lecture and Small Groups; 1 Unit is equal to 30 Credit Hours/ clinical training)	
167. Course administrator's name (mention all, if more than one name)	
Name: Dr. Ali Mohammed Radhi Email: ali.radhi@uobasrah.edu.iq	
168. Course Objectives	
Course Objectives	The aim of this module is to allow the student to develop a 3D concept of the system. Such a concept is basic to the understanding and elucidation of clinical problems. You can accomplish this task mainly by a study of the structure and function of the nervous system
169. Teaching and Learning Strategies	
Strategy	The Nervous System Module course adopts integrative education, which consists of lectures and discussions in small groups. Education is based on understanding the content and not only memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period of 15 weeks, including a week for review and evaluation exam. - Brainstorming education strategy

170. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4 hours	<ul style="list-style-type: none"> • Give an overview of the nervous system • Explaining the functions of the parts of the nervous system • Explaining the relationship between nerve cells and the effect of their dysfunction in pathological conditions. • Explaining the embryonic development of the nervous system 	Lecture: The Brain & Nervous System as an Organ Lecture: Understanding CNS from its Embryology	The Nervous System Module course adopts integrative education, which consists of lectures and discussions in small groups. Education is based on understanding the content and not only memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period of 15 weeks, including a week for review and evaluation exam.	A weekly examination of the Team-Based Learning (TBL) method is conducted as a way to improve learning outcomes by promoting discussion among students
2	4 hours	<ul style="list-style-type: none"> • Study the anatomy of the skull • Explain the composition and circulation of cerebrospinal fluid • Study of blood supply of the nervous system • Study the anatomy of the nervous system and its relationship to pathological conditions 	Lecture: Cellular physiology Lecture: The Meninges, ventricles, CSF & blood supply		
3	4 hours	<ul style="list-style-type: none"> • Study the general properties of sensory receptors • Study sensory pathways and their connection to the brain 	Lecture: Somatic Sensation. Lecture: The Ascending Tracts		

		<ul style="list-style-type: none"> • Explaining the symptoms resulting from levels of damage to the sensory pathways 			
4	4 hours	<ul style="list-style-type: none"> • Studying the parts of the brain that specialized in movement • Study of motor pathways and their connection to the brain • Explaining the neural reflexes at the level of the spinal cord • Explaining the symptoms resulting from damage to different levels of the motor pathways 	Lecture: Lower Motor neurons & The Muscle Stretch Reflex. Lecture: Upper Motor neurons: Descending (motor) Tracts		
5	4 hours	<ul style="list-style-type: none"> • Study the functions of the cerebellum and basal ganglia • Study Parkinson's disease as an example of a disease in the motor system • Explaining the effect of the level of damage in motor pathways on power and reflexes. 	Lecture: Physiology of Basal Ganglia & Cerebellum. Lecture: Parkinson's Disease		
6	4 hours	<ul style="list-style-type: none"> • Study the neural circuit related to pain • Studying the sensory pathways of pain and their connection to the brain • Explain how chronic pain arises. 	Lecture: Acute & chronic pain syndromes & their Pathophysiology. Lecture: Pain as clinical problem & analgesic option		

		<ul style="list-style-type: none"> • Explain how to treat pain with analgesic medications. 			
7	4 hours	<ul style="list-style-type: none"> • Study the origin and distribution of the autonomic nervous system • Study the effect of medications on the autonomic nervous system • Explaining the basics of some pathological conditions of the autonomic nervous system. 	Lecture: Chemical Disturbances of Neurotransmission. Lecture: Seizure Disorders & Epilepsy		
8	4 hours	<ul style="list-style-type: none"> • Studying the special sense of vision and pathological conditions related to the nervous system • Studying the special sense of hearing (and balance) and pathological conditions related to the nervous system 	Lecture: Central Visual Pathways & Their Pathologies Lecture: Mechanisms of Hearing & Their Pathologies		
9	4 hours	<ul style="list-style-type: none"> • Study of pathological conditions resulting from interruption of blood supply to the nervous system (CerebroVascular Accident) • Study the events that happened to the brain after injuries 	Lecture: Brain Blood Supply & its Disruptions (Strokes) Lecture: Head Trauma & Acute Intracranial Events		
10	4 hours	<ul style="list-style-type: none"> • Explaining the basics of Neuroimaging 	Lecture: Principles of Neuro-Imaging-1 Lecture: Principles of Neuro-Imaging-2		

		<ul style="list-style-type: none"> • Study of Neuroimaging in pathological conditions of the nervous system. 			
11	4 hours	<ul style="list-style-type: none"> • Study the state of consciousness and the pathological conditions affecting it. • Study of pathological conditions resulting from infection of the nervous system. 	Lecture: Clinical Assessments of Consciousness Lecture: Meningitis & infectious diseases of brain		
12	4 hours	<ul style="list-style-type: none"> • Studying the areas of the brain related to memory, learning and language. • Studying pathological conditions resulting from injuries to different areas of the brain. 	Lecture: Cortical Association Areas Lecture: Disturbances of Cortical Function & Dementias		
13	4 hours	<ul style="list-style-type: none"> • Explain the importance of taking a medical history in diseases of the nervous system. • Study of pathological changes resulting from diseases of the nervous system. 	Lecture: History-Taking in Diagnoses of NS Disorders Lecture: Pathology of the Diseased Brain		

171. Course Evaluation

The evaluation of students is consistent with the evaluation requirements that were agreed upon in the College Council and with the approval of the Council of Deans of Medical Colleges that follow the integrative approach, by approving 20% annual effort collected from the mid-semester examination. The final exam represents 80% of the grade.

Both exams include questions that can be answered with short answers, and other questions that can be answered with the best choice. The questions are distributed in a way that includes all the academic topics given to the students.

The college also has an important evaluation program that shows the Teaching College members the progress achieved in students' education levels, called the Personal and Professional Development Program.

172. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Nervous System module workbook, Leicester University, College of Medicine
Main references (sources)	<ul style="list-style-type: none"> • Neurophysiology (Carpenter R and Reddi B) • Clinical Neuroanatomy (Snell) • Macleod's Clinical Examination (Douglas, Nicol & Robertson)
Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none"> • Medical Physiology (Guyton & Hall) • Grant's atlas of anatomy (Anne Agur & Arthur Dalley) • Armstrong's Diagnostic Imaging (Armstrong P & Martin W & Anderea R) • A Colour Atlas of Human Dissection (Chumbley & Hutchins)
Electronic References, Websites	The module website is on Google Classroom, which students are informed of at the beginning of each academic year and where they register using their official university emails.

2. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements / Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Dr. Ali Mohammed Radhi	M.B.Ch.B.	Neurosurgery			Staff	
Dr. Zainab Abdul-Mehsin Abood	M.B.Ch.B.	Neurosurgery			Staff	
Dr. Wisam Abdulla	M.B.Ch.B.	Neurosurgery				Lecturer
Dr. Mulook Chasib Kasim	M.B.Ch.B.	Neurosurgery				Lecturer
Dr. Muhanad Ahmed Abdulla	M.B.Ch.B.	Neurosurgery				Lecturer

2. Expected learning outcomes of the program	
A–Knowledge	
Learning Outcomes	<p>A1– Graduating doctors who have complete knowledge of pathological conditions related to the nervous system.</p> <p>A2– Knowing the clinical symptoms and signs of pathological conditions of the nervous system.</p> <p>A3– Knowledge of the types of Neuroimaging of the nervous system.</p> <p>A4– How to deal with head injuries in emergency units.</p>
B–Skills	
Learning Outcomes	<p>B1 – Graduating doctors who have the ability to examine the patient and detect pathological signs that related to the nervous system.</p> <p>B2– The ability to link clinical symptoms and signs with the pathological condition of the nervous system.</p> <p>B3– The ability to choose and read Neuroimaging of the nervous system.</p>
C–Ethics	
Learning Outcomes	<p>C1– Graduating scientific doctors who put humanity as the basis for their work.</p> <p>C2– Graduating Doctors who know exactly how to deal psychologically and ethically with their patients.</p> <p>C3– Graduating Doctors who completely protect their patients’ secrets</p> <p>C4– Graduating Doctors who work as a team and do not refrain from cooperating with each other.</p>

Professional Development
Mentoring new faculty members
<p>After reading and understanding the curriculum of the Module, the new faculty member given an overview on the integrative college system by the Dean assistant for scientific affairs, then he / she will attend lectures & sessions of the Module followed by partial participation in the sessions, to complete giving lectures.</p>

Professional development of faculty members

The faculty members are trained on Team-Based Learning strategy which learn & assess students at different levels of knowledge. This strategy will be developed using a much more sophisticated computers & voting systems that make learning process much more successful both to faculty members & students.

Course Description Form**Third stage**

173.	Course Name:
Forensic Medicine	
174.	Course Code:
Non	
175.	Semester / Year:
Semester	
176.	Description Preparation Date:
14/2/2025	
177.	Available Attendance Forms:
Live attendance	
178.	Number of Credit Hours (Total) / Number of Units (Total)
179.	Course administrator's name (mention all, if more than one name)
Name: Dr Wasan Mansour Dr Saja Dhiea Dr Ihsan Mardan Email:	
180.	Course Objectives
Course Objectives <ul style="list-style-type: none">• 1- Learn about forensic medicine• 2- How to deal with medical and health justice issues• 3- How to write medical reports for the living and the dead• 4- How to write different companies and their importance• 5- Determine the distance intended for relevant judicial cases• 6- Encouraging students to partner in this rare future specialization	
181.	Teaching and Learning Strategies

Strategy

Since the founding of the college in 2017-2018, the Pathology Branch at Al-Zahraa College of Medicine used an integrative education style of lectures and discussions in small groups. Education is based on understanding the content without memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period of 15 weeks, including a week for review and evaluation exam.

- Brainstorming education strategy

- Education strategy notes series

182. Course Structure

We ek	Hour s	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Definition of death and signs of Dhanni and Takadiya death	Forensic Medicine	Integrated education style, represented by lectures and discussions in small groups. Education is based on understanding the content without memorizing it alone, which makes recalling the content easy for the student. A two-hour lecture is given separately, followed by a discussion in small groups about the content of those two lectures and identifying all clinical cases related to the topic of the two lectures. This is for every week for a period of 15 weeks, including a week for review and evaluation exam	Team-Based Learning (TBL) is examined weekly as a way to improve learning outcomes by promoting discussion among students
2	2	Suspended life or apparent death, death spots, bloody decline	Forensic Medicine		
3	2	Dead rust, granularity	Forensic Medicine		
4	2	Decomposition, roles or stages of decomposition, waxing, mummification	Forensic Medicine		
5	2	Wounds, the mechanism or mechanism of wounds, classification of wounds, bruises, types of traumatic injuries	Forensic Medicine		
6	2	Acute wounds, stab wounds, puncture wounds, puncture wound complications of wound infections	Forensic Medicine		
7	2	Forensic medical reports	Forensic Medicine		
8	2	Seminal spots	Forensic Medicine		
9	2	Miscarriage	Forensic Medicine		
10	2	Asphyxia and its types, roles of violent asphyxia, signs of violent asphyxia, classification of cases of mechanical asphyxia	Forensic Medicine		
11	2	Self-concealment, its signs, and how it occurs	Forensic Medicine		

12	2	Recognition	Forensic Medicine		
13	2	Sexual assaults	Forensic Medicine		
14	2	Blood spots	Forensic Medicine		
15	2	Salivary stains	Forensic Medicine		

183. 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

184. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Textbook of Forensic Medicine Toxicology, Jaepee Brothers
Main references (sources)	Forensic Toxicology
Recommended books and references (scientific journals, reports...)	Journal of Forensic Medicine
Electronic References, Websites	http://www.ijfmt.com https://www.bmj.com/content/2/5548/361

3. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Dr Ihsan Mardan	MBChC	Hepatopathology			√	
Dr Wasan Mansour	MBChC	Histopathology				√
Dr Saja Dheaa	MBChC	Histopathology				√

3. Expected learning outcomes of the program

Knowledge

- 1- The student will learn about diseases of the human body and the effects of the disease on every part of the body
- 2- To distinguish between normal and abnormal cases through studying general diseases and identifying them clinically and histologically
- 3- Learn about forensic medicine
- 4- Learn about forensic medicine
- 5- How to deal with forensic medical cases received by health institutions
- 6- How to write medical reports for the living and the dead
- 7- How to write various death certificates and their importance
- 8- Learn about the rest of the relevant forensic sciences
- 9- Encouraging students to enroll in this rare specialty in the future

Skills

- 1- Avoid making mistakes when writing forensic medical reports
- 2- Knowing how and safely sending forensic medical cases to the forensic medicine office for the living and the dead
- 3- Knowing the legal methods when receiving forensic medical cases of living people arriving at medical institutions
- 4- The correct methods for diagnosing general human diseases

Ethics

- 1- Graduating scientific doctors and scientists who hold humanity as the basis of their work.
- 2- Doctors know exactly how to deal psychologically and ethically with their patients.
- 3-Doctors completely protect their patients' secrets
- 4- Doctors work as a team and do not refrain from cooperating with each other because they have learned to work collectively

Course Description Form

Fourth stage

1. Course Name:	
Block of Musculoskeletal care	
2. Course Code:	
MSK Block	
3. Semester / Year:	
fourth year	
4. Description Preparation Date:	
26/3/2024	
5. Available Attendance Forms:	
Attendance Only	
6. Number of Credit Hours (Total) / Number of Units (Total)	
240 hours (30 hours: theory, 30 small groups, 180 hours: clinical). 10 units (1 unit=15 hours in theory and small group, 1unit= 30 in clinical)	
7. Course administrator's name (mention all, if more than one name)	
Name: Assist. Professor Faleh Waheed Hashim Email: faleh.hashim@uobasrah.edu.iq	
8. Course Objectives	
Course Objectives	<p>1.The general objective of this course is to provide the student with the knowledge and skills necessary to diagnose and treat musculoskeletal disorders and musculoskeletal system injuries, in a way that helps to save the patient's life or preserve the functions of the affected organs.</p> <p>2.The Scientific and professional dealing with medical cases and emergency injuries of the musculoskeletal system and learning scientific and practical methods and skills to avoid or reduce the complications of these cases.</p> <p>3.To help the student enter the training program in the foundation year and subsequent postgraduate training programs and providing him with the necessary skills for management and basic treatments for musculoskeletal conditions in accordance with modern and internationally approved scientific foundations.</p>
9. Teaching and Learning Strategies	
Strategy	The surgery branch, as is the case in other clinical branches, relies on the integrative curriculum adopted by Al-Zahraa College of Medicine since its establishment in 2017-2018,

which is represented by theoretical lectures and small groups in a way to solve clinical problems. The focus is on the content and not just memorization, which makes the student able to study and deal correctly and scientifically with orthopedic cases, especially emergency ones. The course is divided into two parts. The first part is called the induction phase and lasts for two weeks in the form of lectures, 4 lectures per day, followed by a discussion seminar for small groups in a way to solve clinical problems. The second part called postinduction phase, it is the clinical part and lasts for a period of six weeks. The course is in the teaching hospitals where the student sees and also participates in Examination and management of medical conditions with seminars and direct supervision by the teaching specialist physician

Also, every Thursday there is a seminar on a clinical topic that is prepared in advance and takes advantage of the clinical skills laboratory located in the college building.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	25	Understanding the principles of injuries to the various parts of the musculoskeletal system, how to diagnose them, the required tests, the types of conservative and surgical treatment, complications,	Introduction to various fractures complications of fracture, process bone healing, Common fractures and dislocations the upper limb, common fractures and dislocations lower limbs, spine fractures and dislocations, pelvic injuries, nerve injuries and tendon and muscle injuries and	The integrative education style consists of lectures and discussions in small groups by solving clinical problems style. The education is based on understanding	The performance of students is evaluated daily through individual evaluation and team evaluation in implementation

		how to prevent them, and how to deal with them if they occur.	laceration and W injuries	g the content, not just memorization, which makes recalling the content easy for the student. Four lectures are given, followed by a discussion in small group sessions about the content of those lectures and discuss all the clinical problem cases related to the topics of the lectures. This happens every day for two weeks	nting the solution to the clinical problem cases, as well as weekly at the end of the week a written examination in the subject of the previous week. Practical performance is evaluated by testing their abilities in dealing with the orthopedic cases that the students faced during the day and how to evaluate and deal with
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					them. This is done through a panel discussio n at the end of the day
2	25	Understanding the principles of diseases of the musculoskeletal system that are not caused by injuries, such as infections, tumors, rheumatism, etc., their symptoms, and how to diagnose and treat them according to the most recent international products and guidelines.	Musculoskeletal tumors, MSK infections, rheumatological diseases, neuropathies, myopathies, osteoarthritis, rehabilitation, diseases of the joints and neuromuscular disorders		
3-8	140	To know how to take a case history and conduct a clinical examination in	1.Observed histo general and orthopedic regional examination 2.Rheumatology outpatient clinic	The method learning is identify pathological cases of bo and jo surgery a	The performan of students evaluated daily through individual

		<p>the orthopedic wards, and how to deal with critical cases in the emergency department, and how to deal with the patient in the orthopedic consultation unit and the Rheumatology consultation unit, as well as knowing how to prepare for operations and watching how surgeries are performed in the operating room, and also participating in minor operations and some simple surgical interventions.</p> <p>This performed by dividing the students into six small groups whose work location changes weekly for a period of six weeks and in three teaching</p>	<p>3. Orthopaedic outpatient: A: outpatient clinic B: casting fracture 4. Surgical theatre 5. Casualty unit</p>	<p>fractures found in the hospital consultations and emergencies, how to deal with them and evaluate the problem, clinically, as well as the necessary laboratory and radiological examinations and follow up surgical cases before, during and after the operation and how to follow them, and all this is done in an integrated manner and groups cooperate with each other to complete tasks and evaluate all this at the end of the day</p>	<p>evaluation and teaching evaluation implemented through the clinical problem, as well as weekly at the end of the week written examination in the subject of the previous week. Practical performance is evaluated by testing their abilities dealing with the medical cases that the student faced during the day and how to evaluate and deal with them. This is done through panel discussion at the end of the day</p>
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4. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assist. Prof. Dr. Faleh Waheed Hashem	Bachelor of Medicine and General Surgery	Doctorate in Orthopedics and Traumatology			Staff	
M.D. Mustafa Imad Al-Badran	Bachelor of Medicine and General Surgery	Subspecialty Rheumatic Joint Diseases			Staff	
Specialist Doctor Dr. Raed Jassim Jasib	Bachelor of Medicine and General Surgery	Doctorate in Orthopedics and Traumatology				Lecturer
Specialist Doctor Ahmed Ibrahim Habib	Bachelor of Medicine and General Surgery	Doctorate in Orthopedics and Traumatology				Lecturer
Specialist Doctor Rafid Musa Jaafar	Bachelor of Medicine and General Surgery	Doctorate in Orthopedics and Traumatology				Lecturer
Specialist Doctor Ahmed Hazem Daham	Bachelor of Medicine and General Surgery	Doctorate in Orthopedics and Traumatology				Lecturer
Specialist Doctor Muhammad Baqir Abbas Abdel Zahra	Bachelor of Medicine and General Surgery	Doctorate in Orthopedics and Traumatology				Lecturer

Specialist Doctor Ahmed Khalaf Lafta	Bachelor of Medicine and General Surgery	Doctorate in Orthopedics and Traumatology				Lecturer
Specialist Doctor Abdul Sattar Hussein Al-Madh	Bachelor of Medicine and General Surgery	Higher Diploma in Joint Diseases and Rheumatism				Lecturer
Specialist Doctor Shahdi Hussein	Bachelor of Medicine and General Surgery	PhD, Diagnostic Radiology				Lecturer

13. Expected learning outcomes of the program

Knowledge	
Learning Outcomes 1	<p>A1–Knowledge of the applied anatomical, histological and functional aspects of the different parts of the musculoskeletal system</p> <p>A2– Knowledge of the common conditions that affects the MSK system and the basic principles in diagnosis and treatment especially for accidents.</p> <p>A3– Knowledge of the common traumatic conditions and the basic principles of diagnosis and treatment</p> <p>A4– General knowledge in the devices used in the diagnosis of conditions that affect the musculoskeletal system, especially radiological devices and to know how to use these tools in the diagnosis of the musculoskeletal disorders.</p> <p>A5– General knowledge of the devices and tools used in the surgical interference for conditions and injuries related to the musculoskeletal system</p> <p>A6– General knowledge of preventive measures that are used to reduce the bad sequels and complications of the diseases and injuries of the musculoskeletal system and also know how to deal with the patient from physical, psychological and social aspects.</p>
Skills	
Learning Outcomes 2	<p>B1– Graduation of safe and competent doctors through the provision of results–based medical education that enables medical students to acquire the knowledge, skills and attitudes related to the health–care system and responds to the health needs of the community.</p>

	B2– To provide patient–centered care, focusing on the compassionate approaches by applying the effective communication skills, humanitarian and ethical principles in all aspects of the medical practice.
Learning Outcomes 3	B3– Evolving the necessary infrastructures for the scientific environment that supports the long–term problem–solving learning, and promotes the innovative achievements and encourages the exchange and partnership programs.
Ethics	
Learning Outcomes 4	C1– Graduating academic doctors who making the humanity and human rights are the basis of their work. C2– Professional doctors who consider the psychological and moral aspects of the medical profession.
Learning Outcomes 5	C3– Doctors deal with patients with confidence and keep the secrets of their patients. C4– Doctors working in a team spirit and are cooperative among themselves to solve medical and community problems.

Professional Development

Mentoring new faculty members

Workshops are conducted at the college and branch levels for new teachers, whether staff or lecturers, in which they are trained on the integrative curriculum adopted by Al–Zahraa College of Medicine, in which the student is the focus of the educational process, the mechanism for monitoring student development, and evaluation methods.

Professional development of faculty members

As a part of the program that adopted by AL Zahraa college of medicine for personal and career development program (PPDP), the teachers of the musculoskeletal system care have been divided within the list of the mentors to follow the progression in the level of the student's personal and educational aspects and to help them to overcome the challenges they face during learning and acquiring skills.

Course Description Form

Fourth stage

1. Course Name:	
Cardiorespiratory block	
2. Course Code:	
CRC	
3. Semester / Year:	
yearly	
7- Description Preparation Date:	
30/3/2025	
8- Available Attendance Forms:	
Attendance only	
9- Number of Credit Hours (Total) / Number of Units (Total)	
240 hour per semester (30 hours lectures, 30 hours small group and 180 hours clinical training) Number of unit 10 unit, every 15 hour of lectures and small group represent one unit and 30 hours of clinical training represent one unit	
10- Course administrator's name (mention all, if more than one name)	
Name: Firas Rasheed Sayel Email: firas.alobaiddi@uobasrah.edu.iq	
11- Course Objectives	
Course Objectives	<ul style="list-style-type: none"> *Provide basic knowledge for cardiorespiratory disease, which helps the students save lives and preserve the cardiac and respiratory function. *Make the students able to deal scientifically and efficiently with the emergency cases of cardiorespiratory disease. *Provide the clinical skills and knowledge about how to diagnose and treat cardiorespiratory disease according to the newest recommended guideline
12- Teaching and Learning Strategies	
Strategy	The branch of internal medicine, as in other clinical branches, depends on the integrative curriculum adopted by Al-Zahra College of Medicine since its establishment in 2017-2018, which is represented by theoretical lectures and small groups in a way to solve clinical problems, and the focus is on content and not only memorization, which makes

the student able to recall and deal scientifically with pathological cases, especially emergency ones. The course is divided into two parts, the first part is called the induction part and lasts for two weeks in the form of lectures by 4 lectures per day, followed by a ring for small groups Under the direct supervision of the teaching specialist doctor

Also, every Thursday, there is a seminar on a clinical topic that is prepared in advance and takes advantage of the clinical skills laboratory in the college

13- Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	25	Understand the principles of diseases of the cardiac system in all its parts, how to diagnose and tests required, types of conservative treatment, complications, how to prevent them and how to deal with them if they occur	-Symptoms of cardiorespiratory system -Diseases of the cardiovascular system (heart failure, IHD, valvular heart diseases, pericardial diseases, hypertension and congenital heart diseases).	The pattern of integrative education, represented by lectures and discussions in small groups in a way to solve clinical problems. Education is based on understanding the content and not just memorization, which makes it easy for the student to remember the content. 4 lectures are given followed by a small group discussion on the content of those lectures and identifying all clinical cases related to the topic of the lectures. And this is for every day for a period of two weeks	The performance of students is evaluated daily through individual evaluation and team evaluation in the implementation of clinical problem solving, as well as weekly at the end of the week written exam in the previous week's material, and the practical performance evaluation is by testing their abilities in dealing with the pathological cases that students faced during the day and how to evaluate and deal with them, and this is through a panel discussion implemented at the end of the day
2	25	Understand the principles of diseases of the respiratory system in all its parts, how to diagnose and tests required, types of conservative treatment, complications, how to prevent them and how to deal with them if they occur	Diseases of the respiratory system (infections, tumors, tuberculosis, interstitial lung diseases, pleural diseases and systemic diseases affecting the lung)		
3	25	Knowing how to take the history of the disease and conduct a clinical examination in the internal medicine lobbies and specialized centers and how to deal with critical cases in the	Observed history taking in the out patient, medical wards, CCU, ICU; and the casualty unit		

		emergency department and how to deal with the patient in the external consultant by dividing students into six small groups whose place of work changes weekly for a period of six weeks in Basrah hospitals, which are Basrah Teaching Hospital, Al Sader teaching Hospital and Basra oil Hospital			
4	25	Know how to take the history of the disease and conduct a clinical examination in the corridors of internal medicine and specialized centers and how to deal with critical cases in the emergency department and how to deal with the patient in the outpatient department.	Observed history taking in the out patient, medical wards, CCU, ICU; and the casualty unit		
5	25	Know how to take the history of the disease and conduct a clinical examination in the corridors of internal medicine and specialized centers and how to deal with critical cases in the emergency department and how to deal with the patient in the outpatient department.	Observed general exam in the specialized centers and medical wards		
6	25	Know how to take the history of the disease and conduct a clinical examination in the corridors of internal medicine and specialized centers and how to deal with critical cases in the emergency department and how to deal with the patient in the outpatient department.	Observed general exam in the specialized centers and medical wards		
7	25	Know how to take the history of the disease and conduct a clinical examination in the	Observed general exam in the specialized		

		corridors of internal medicine and specialized centers and how to deal with critical cases in the emergency department and how to deal with the patient in the outpatient department.	centers and medical wards		
8	25	Know how to take the history of the disease and conduct a clinical examination in the corridors of internal medicine and specialized centers and how to deal with critical cases in the emergency department and how to deal with the patient in the outpatient department.	Observed general exam in the specialized centers and medical wards		

14– Course Evaluation

The evaluation of students is consistent with the evaluation requirements that have been agreed upon in the College Council and is given to the Council of Deans of Medical Colleges that follow the integrative approach by adopting 20% annual endeavor obtained from the mid-semester theoretical and clinical exam (mid exam) and the final exam is representative of 80% of the grade. In both exams, the theoretical exam is in the manner of clinical problems and by two papers, the first paper is multiple choice questions and the second is short answers that are combined with the rest of the blocks to form integrative questions that form the share of the cardiorespiratory system block in each of the two papers

15– Learning and Teaching Resources

Required textbooks (curricular books any)	Cardiorespiratory workbook
Main references (sources)	The recommended textbook is •Ralston, S. H., Penman, I. D., Strachan, M. W. J., & Hobson, R. (Eds.). (2018). Davidson's principles and practice of medicine (23rd ed.). Elsevier Health Sciences.
Recommended books and references (scientific journals, reports...)	Macleod's Clinical Examination 14th Edition by J. Alastair Innes BSc PhD FRCP Ed (Editor), Anna R Dover PhD FRCP(Ed) (Editor)
Electronic References, Websites	Google classroom

5. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Firas Rasheed Sayel	Internal medicine	Cardiology			staff	
Mohammed Adel Abdulhasan	Internal medicine	Internist			staff	
Mazin Abd Haza'a	Internal medicine	cardiology			staff	
Mustafa Imad Omran	Internal medicine	Rheumatology			staff	
Quitaiba Muslim Awad	Internal medicine	Hematolgy			staff	
Farqed Majeed	microbiology				staff	
Zainab Muzahem	Biochemistry				staff	
Ahmed Bedir	Physiology	Physiology			staff	
Qais Ali Habeeb	Internal medicine	Internist				Lecturer
Dhaem Falih	Internal medicine					Lecturer
Khadem Salih	Cardiothoracic surgery					Lecturer
Firas Salim	Cardiothoracic surgery					Lecturer
Zuhair Abdulkareem	Internal medicine	Internal medicine				Lecturer

4. Expected learning outcomes of the program

Knowledge

- 1- Knowledge of the anatomical, histological and functional aspects of cardiorespiratory system
- 2- Knowing common conditions, their symptoms and the basic principles of diagnosis and treatment
- 3- Knowledge of common injuries and the basic principles of diagnosis and treatment, especially emergency cases.
- 4- Knowing the devices used in diagnosing complications that affect the cardiorespiratory system, especially radiological devices, and how to use them in diagnosing pathological conditions
- 5- General knowledge of preventive methods to reduce the complications of diseases and injuries of the cardiorespiratory system as well as knowing how to deal with the patient from all physical, psychological and social aspects

Skills

- 1 - Graduating safe and competent doctors by providing evidence -based medical education that enables medical students to acquire knowledge, skills and attitudes relevant to the health care system and responds to the health needs of the community.
- 2 - Provide patient-centered care, with a focus on a compassionate approach by applying effective communication skills, humanitarian and ethical principles in all aspects of medical practice
- 3 - Prepare the necessary infrastructure for a scientific environment that supports long-term problem-based learning, fosters innovative achievements.
- 4- The ability to deal with diseases of the cardiorespiratory system, especially critical ones.
- 5- The ability to scientifically link the symptoms that appear on the cardiorespiratory system, which appear on other body systems to reach an accurate diagnosis
- 6- The possibility of conducting clinical, radiological and laboratory tests appropriate for each condition affecting the cardiorespiratory system to reach the diagnosis and then treatment and at the appropriate speed to obtain the best therapeutic results

Ethics

- 1- Graduating academic doctors and making human values the basis of their work.
- 2- Professional doctors who take into account the psychological and ethical aspect of the medical profession.
- 3- Doctors who confidently deal with patients and keep the secrets of their patients.
- 4- Doctors working in a team spirit and cooperating with each other to solve medical and societal problems

Course Description Form

Fourth stage

1. Course Name:
Block for the care of the gastrointestinal system
2. Course Code:
GIT Block
3. Semester / Year: 5 th Academic year.
annual
4. Description Preparation Date:
2025
5. Available Attendance Forms: Personal Attendance
My presence only
6. Number of Credit Hours (200) / Number of Units (10)
240 semester hours (30 theoretical lecture hours, 30 small group hours, and 180 clinical hours) *The number of units is 10, where every 15 hours of theory and small groups represent one unit and each 30 hours of work represent one unit
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Wissam Hamza Abbas Al-Sawadi Email: wisam.abbas@uobasrah.edu.iq
8. Course Objectives
1-The general goal of this course is to provide the student with the knowledge and skills necessary to diagnose and treat diseases, disorders, and surgeries related to the digestive system. 2- Scientific and professional dealing with medical cases and emergency injuries to the digestive system and learning scientific and practical methods and skills to avoid or reduce the repercussions of these cases. 3- Helping the student to enter the training program in the foundation year and subsequent postgraduate training programs and providing him with the necessary skills for the management and basic treatments of emergency and cold cases of the digestive system in accordance with modern scientific foundations that are internationally approved.
9. Teaching and Learning Strategies
The surgery branch, as is the case in other clinical branches, relies on the integrative curriculum adopted by Al-Zahraa College of Medicine since its establishment in 2017-2018, which is represented by theoretical lectures and small groups in a way to solve clinical

problems. The focus is on the content and not just memorization, which makes the student able to study and deal correctly scientifically with... Medical cases, especially emergency ones. The course is divided into two parts. The first part is called the introductory part and lasts for two weeks in the form of lectures, 4 lectures per day, followed by a discussion circle for small groups in a way to solve clinical problems. The second part is the clinical part and lasts for six Weeks of work in educational hospitals during which the student is seen and also participates in examining and treating medical cases with discussion circles and under the direct supervision of the teaching specialist physician. Also, every Thursday there is a seminar on a clinical topic that is prepared in advance and takes advantage of the clinical skills laboratory located in the college .

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 st - 2 nd	From 8:00 am to 2:30 pm	Learn about common diseases that affect the digestive system and how to diagnose and treat them	Digestive system lectures	The integrative education style consists of lectures and discussions in small groups in a way that solves clinical problems. Education is based on understanding the content and not just memorization, which makes recalling the content easy for the student. 4	Students' performance evaluated daily through individual evaluation and team evaluation in implementing the solution to the clinical problem, as well as weekly at the end of the week, a written exam in the previous week's subject and the evaluation is Practical performance by testing the abilities to deal with the medical cases that the

				lectures are given, followed by a discussion in small groups about the content of those lectures and identifying all clinical cases related to the topic of the lectures. This is done every day for two weeks	students face during the day and how to evaluate and deal with them. This is done through discussion group held at the end of the day.
3 rd -8 th	8:00 am To 2:30 pm	Dealing with medical cases, the ability to identify and read the text and procedures required for diagnosis and treatment, and the ability to deal with emergency and critical cases.	Practical application in gastrointestinal care.	<ul style="list-style-type: none"> • Presence in consultations External • Being in the halls Medical • Being in halls Gastrointestinal operations and general surgery • Device Center Clinics Digestive 	Lookbook, attendance record and OSCE exam

				<ul style="list-style-type: none"> • Study methods of conducting O.G.D., COLONOSCOPY And other procedures To examine the digestive system • Clinical schizophrenia • Skills laboratory • Internal emergencies And surgical • Procedure skills Basic and discussion of pathological conditions. 	
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11.Course Evaluation

At the end of the block, a report will be submitted to the Faculty on whether each student:

Attend all specific compulsory classes and other clinical classes as appropriate.

Complete the required tasks specified in the unit logbook record.

Satisfactorily complete structural assessments (as appropriate), including medical consultation skills and knowledge-based assessments.

Commitment and demonstration of professional attitudes and behaviors.

The Board of Examiners in the second phase, or a subset thereof (members of the block's teachers), reviews the reports (logbook) of the unit record and the scientific progress of

each student at regular intervals, and determines the appropriate action in the event that any student does not satisfactorily complete all aspects of the unit assessment.

1- Short exams weekly.

2- A theoretical exam that includes questions. It has single best answer questions (choose the most correct answer out of five options) and each question in the form of a clinical presentation or a condition that followed by five options. The number of questions in examination paper ranges from 100-120 questions and the allowed time is three hours.

3. The end-of-module practical exam, which includes 8-10 stations OSCE (Objective Structural Clinical examination).

4- Daily evaluation of the performance of students in small groups and participation in the presentation of seminars and during clinical training.

5- Evaluating the student within special fields in the student's practical handbook (Clinical training Logbook)

12. Learning and Teaching Resources

Required textbooks (curricular books, any)	Workbook Student Lookbook Lectures
Main references (sources)	Bailey & Love's Short Practice of Surgery, 27th Edition: Edited By Norman S. Williams Copyright Year 2018 Porth, CM. Essentials of Pathophysiology. 3 rd Edition, Lippincott Williams & Wilkins [2011]; Gastrointestinal system – crash course. 3 rd Edition, Mosby [2008] Macleod's clinical examination
Recommended books and references (scientific journals, reports...)	Management of critically ill surgical patient Essential Revision Notes for Intercollegia MRCS book 1: Edited by Claire Ritc Chalmers Copyright year 2006 PASTEST LT
Electronic References, Websites	Google classroom Students are notified of this at the beginning of each academic year and they register with their official university emails

6. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills		Number of the teaching staff	
	General	Special			Staff	Lecturer
Ass. Prof. Jawad Ramadhan Fadhl	Consultant general surgeon	Doctorate in General Surgery			Yes	
Lecturer Wisam Hamza Abbas	Consultant general surgeon	Doctorate in General Surgery			Yes	
M.D. Sadiq Hassan	Bachelor of General Medicine and Surgery	Doctorate in Pediatric Surgery			Yes	
Dr. Haitham Hussein	Bachelor of General Medicine and Surgery	Doctorate in Pediatric Surgery			Yes	
Dr. Ahmed Dawai Chiad	General surgery	Doctorate in Pediatric Surgery				Yes
Dr. Ahmed Jaleel	General surgery	Doctorate in Pediatric Surgery				Yes
The specialist doctor, Dr. Haider Mohsen Jarallah	Bachelor of General Medicine and Surgery	Doctorate in Internal Medicine/ specialization in diseases of the				Yes

		liver, bile ducts, and pancreas				
Specialist physician Dr. Talal Hadi	Bachelor of General Medicine and Surgery	Doctorate in Internal Medicine/ specialization in diseases of the liver, bile ducts, and pancreas				Yes
Specialist doctor Shahdi Hussein	Bachelor of General Medicine and Surgery	Doctorate in Diagnostic Radiology				Yes

13.Expected learning outcomes of the program

Knowledge

- A1- Knowledge of the anatomical, histological and functional aspects of the parts of the digestive system**
- A2-Knowledge of common disease conditions, their symptoms, and the basic principles of diagnosis and treatment**
- A3- Knowledge of common injuries and the basic principles of diagnosis and treatment, especially emergency cases.**
- A4-Knowing the devices used in diagnosing complications affecting the digestive system, especially radiological devices, and how to use them in diagnosing pathological conditions and injuries.**
- A5- General knowledge of the devices and tools used in surgical interventions for pathological conditions and injuries related to the digestive system**
- A6- General knowledge of preventive methods to reduce the repercussions and complications of diseases and injuries of the digestive system, as well as knowledge of how to deal with the patient from all physical, psychological and social aspects.**

Skills

B1 -To graduate safe and competent doctors by providing results-based medical education that enables medical students to acquire knowledge, skills, and attitudes relevant to the health care system and responds to community health needs.

B2 - Provide patient-centered care, emphasizing a compassionate approach by applying effective communication skills, humane and ethical principles in all aspects of medical practice

B3 - Prepare the necessary infrastructure for a scientific environment that supports long-term problem-based learning, promotes innovative achievements, and encourages exchange and partnership programs.

B4- The ability to deal with injuries and diseases of the digestive system, especially critical ones

B5- The ability to scientifically link the symptoms that appear on the digestive system and those that appear on other body systems to reach an accurate diagnosis of medical conditions.

B6- The possibility of conducting appropriate clinical, radiological and laboratory examinations for each disease affecting the digestive system to reach diagnosis and then treatment at the appropriate speed to obtain the most detailed therapeutic results.

C-Values

(Emotional and value goals

C1- Graduating academic doctors who make human values a basis for their work.

C2- Professional doctors who take into account the psychological and ethical aspects of the medical profession.

C3- Doctors deal confidently with patients and keep their patients' secrets.

C4- Doctors work as a team, cooperating with each other to solve medical and societal problems

Course Description Form

Fourth stage

1. Course Name:	
Nephrology and endocrine block	
2. Course Code:	
3. Semester / Year:	
Year	
4. Description Preparation Date:	
30/3/2025	
5. Available Attendance Forms:	
Attendance only	
6. Number of Credit Hours (Total) / Number of Units (Total)	
180 hour per semester (40 hours lectures, 140 hours clinical training) Number of unit 12 unit, every 15 hour represent one unit	
7. Course administrator's name (mention all, if more than one name)	
Name: Mohammed Adel Abdulhasan Email: mohammed.adel@uobasrah.edu.iq	
8. Course Objectives	
Course Objectives	Provide basic knowledge for renal and endocrine disease, which helps the students save lives and preserve the endocrine and renal function. Make the students able to deal scientifically and efficiently with the emergency cases of renal and endocrine disease. Provide the clinical skills and knowledge about how to diagnose and treat renal and endocrine disease according to the newest recommended guideline
9. Teaching and Learning Strategies	
Strategy	The branch of internal medicine, as in other clinical branches, depends on the integrative curriculum adopted by Al-Zahra College of Medicine since its establishment in 2017-2018, which is represented by theoretical lectures and small groups in a way to solve clinical problems, and the focus is on content and not only memorization, which makes the student able to recall and deal scientifically with pathological cases, especially emergency ones. The course is divided into two parts, the first part is called the introductory part and lasts for two weeks in the form of lectures by 4 lectures per day, followed by a ring for small groups Under the direct supervision of the teaching specialist doctor Also, every Thursday, there is a seminar on a clinical topic that is prepared in advance and takes advantage of the clinical skills laboratory in the college

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	25	Understand the principles of diseases of the renal system in all its parts, how to diagnose and tests required, types of conservative treatment, complications, how to prevent them and how to deal with them if they occur	Symptoms of endocrine and renal system -Diseases of the renal system system (acute and chronic renal failure, glumeronephritis, renal tubular disease, interstitial renal disease, renovascular disease, hypertension; and electrolyte disturbances.	The pattern of integrative education, represented by lectures and discussions in small groups in a way to solve clinical problems. Education is based on understanding the content and not just memorization, which makes it easy for the student to remember the content. 4 lectures are given followed by a small group discussion on the content of those lectures and identifying all clinical cases related to the topic of the lectures. And this is for every day for a period of two weeks	The performance of students is evaluated daily through individual evaluation and team evaluation in the implementation of clinical problem solving, as well as weekly at the end of the week written exam in the previous week's material, and the practical performance evaluation is by testing their abilities in dealing with the pathological cases that students faced during the day and how to evaluate and deal with them, and this is through a panel discussion implemented at the end of the day
2	25	Understand the principles of endocrine diseases (diabetes, thyroid, pituitary, adrenal and others), their symptoms, how to diagnose and treat them according to the latest products and international guidelines	Diseases of the endocrine system (DM, thyroid diseases, diseases of the pituitary and hypothalamus, adrenal diseases; and others)		
3	25	Knowing how to take the history of the disease and conduct a clinical examination in the internal medicine lobbies and specialized centers and how to deal with critical cases in the emergency department and how to deal with the patient in the external consultant by dividing students into six small groups whose place of work changes weekly for a period of six weeks in Basrah hospitals, which are Basrah Teaching Hospital, Al Sader teaching Hospital and Al-Fayhaa Hospital	Observed history taking in the out patient, medical wards and the casualty unit		
4	25	Know how to take the history of the disease and conduct a clinical	Observed history taking, in the		

		examination in the corridors of internal medicine and specialized centers and how to deal with critical cases in the emergency department and how to deal with the patient in the outpatient department.	outpatient, medical wards and the casualty unit		
5	25	Know how to take the history of the disease and conduct a clinical examination in the corridors of internal medicine and specialized centers and how to deal with critical cases in the emergency department and how to deal with the patient in the outpatient department.	Observed general exam in the specialized centers and medical wards		
6	25	Know how to take the history of the disease and conduct a clinical examination in the corridors of internal medicine and specialized centers and how to deal with critical cases in the emergency department and how to deal with the patient in the outpatient department.	Observed general exam in the specialized centers and medical wards		
7	25	Know how to take the history of the disease and conduct a clinical examination in the corridors of internal medicine and specialized centers and how to deal with critical cases in the emergency department and how to deal with the patient in the outpatient department.	Observed general exam in the specialized centers and medical wards		
8	25	Know how to take the history of the disease and conduct a clinical examination in the corridors of internal medicine and specialized centers and how to deal with critical	Observed general exam in the specialized centers and medical wards		

		cases in the emergency department and how to deal with the patient in the outpatient department.			
11. Course Evaluation					
<p>The evaluation of students is consistent with the evaluation requirements that have been agreed upon in the College Council and is given to the Council of Deans of Medical Colleges that follow the integrative approach by adopting 20% annual endeavor obtained from the mid-semester theoretical and clinical exam (mid exam) and the final exam is representative of 80% of the grade.</p> <p>In both exams, the theoretical exam is in the manner of clinical problems and by two papers, the first paper is multiple choice questions and the second is short answers that are combined with the rest of the blocks to form integrative questions that form the share of the endocrine and renal system block in each of the two papers</p>					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			Endocrine and Nephrology workbook		
Main references (sources)			<p>The recommended textbook is</p> <ul style="list-style-type: none"> •Ralston, S. H., Penman, I. D., Strachan, M. W. J., & Hobson, R. (Eds.). (2018). Davidson's principles and practice of medicine (23rd ed.). Elsevier Health Sciences. 		
Recommended books and references (scientific journals, reports...)			<p>Macleod's Clinical Examination 14th Edition by J. Alastair Innes BSc PhD FRCP Ed (Editor), Anna R Dover PhD FRCP(Ed) (Editor)</p>		
Electronic References, Websites			Google classroom		

13. Expected learning outcomes of the program
Knowledge
<p>1- Knowledge of the anatomical, histological and functional aspects of the endocrine parts and the renal system</p> <p>2- Knowing common conditions, their symptoms and the basic principles of diagnosis and treatment</p> <p>3- Knowledge of common injuries and the basic principles of diagnosis and treatment, especially emergency cases.</p> <p>4- Knowing the devices used in diagnosing complications that affect the endocrine glands and the renal system, especially radiological devices, and how to use them in diagnosing pathological conditions</p> <p>5- General knowledge of preventive methods to reduce the complications of diseases and injuries of the endocrine glands and the renal system as well as knowing how to deal with the patient from all physical, psychological and social aspects</p>
Skills
<p>1 - Graduating safe and competent doctors by providing evidence - based medical education that enables medical students to acquire knowledge, skills and attitudes relevant to the health care system and responds to the health needs of the community.</p> <p>2 - Provide patient-centered care, with a focus on a compassionate approach by applying effective communication skills, humanitarian and ethical principles in all aspects of medical practice</p> <p>3 - Prepare the necessary infrastructure for a scientific environment that supports long-term problem-based learning, fosters innovative achievements.</p> <p>4- The ability to deal with diseases of the endocrine glands and the renal system, especially critical ones.</p> <p>5- The ability to scientifically link the symptoms that appear on the endocrine glands and the renal system, which appear on other body systems to reach an accurate diagnosis of Al-Marsi cases</p> <p>6- The possibility of conducting clinical, radiological and laboratory tests appropriate for each condition affecting the endocrine glands and the renal system to reach the diagnosis and then treatment and at the appropriate speed to obtain the best therapeutic results</p>
Ethics
<p>1- Graduating academic doctors and making human values the basis of their work.</p> <p>2- Professional doctors who take into account the psychological and ethical aspect of the medical profession.</p> <p>3- Doctors who confidently deal with patients and keep the secrets of their patients.</p> <p>4- Doctors working in a team spirit and cooperating with each other to solve medical and societal problems</p>

Course Description Form

fifth stage

1- Course Name:
Special Senses Care
2- Course Code:
Sps
3- Semester / Year: 5 th Academic year.
year
4- Description Preparation Date:
2025
5- Available Attendance Forms: Personal Attendance
My presence only
6- Number of Credit Hours (200) / Number of Units (10)
240 semester hours (30 theoretical lecture hours and 30 small group hours) Practical 180 hours / number of units 10
7- Course administrator's name (mention all, if more than one name)
Name: Dr.Ahmed Mohammed Al-Sammak Email: ahmed.abbood@uobasrah.edu.iq
8- Course Objectives
1The general goal of this course is to provide the student with the knowledge and sk necessary to diagnose and treat diseases of the five senses in a way that helps save t patient's life or maintain the functions of the affected organs. 2- Scientific and professional dealing with medical cases and emergency injuries to the f senses and learning scientific and practical methods and skills to avoid or reduce t repercussions of these cases. 3- Helping the student to enter the training program in the foundation year and subsequ postgraduate training programs and providing him with the necessary skills for t management and basic treatments of medical conditions in accordance with modern a internationally approved scientific foundations. A. Cognitive objectives a . 1 By the end of the block the student should be able to: • Demonstrate their ability to identify important causes of symptoms of: o Eye discomfort o Visual disturbance • By taking the appropriate history to arrive at a provisional diagnosis • Selectively elicit abnormal signs that are normal and common in the eye for diagnos testing

Hypotheses, in particular:

Testing and recording visual acuity in adults and children o

Examine the external eye using a flashlight

Assess the patient for the presence of strabismus by corneal and ocular reflexes

Cover test

Perform the oscillating flash lamp test for a relative afferent pupillary defect o

Fundus examination with direct ophthalmoscopy. o

Safely use diagnostic drops containing mydriasis and fluorescein o

Examination of visual fields confrontation o

Ocular media examination of both adults and children by red o reflex

• Distinguish between ophthalmology complaints that require immediate referral, those that require referral but are not urgent and those that do

They can be administered by a newly qualified practitioner

• Discuss the extent and causes of preventable blindness worldwide

• Demonstrate their ability to identify important causes

- Nasal congestion

- Rhinitis

- Nosebleeds

- Deafness

- pain in the ear

- Sore throat

-Difficulty swallowing

- Swelling in the neck

- Facial pain

- headache

Hoarseness

• By taking the appropriate history to arrive at a provisional diagnosis

• Selectively elicit normal and common abnormal signs in the ears, nose and throat, including the use of

Otoscope and tuning fork for testing diagnostic hypotheses

• Use investigations selectively to confirm diagnostic hypotheses

• Formulate a simple management plan including assessing the need for referral

B. The program's skill objectives

The above competencies should be expressed in the following contexts:

• Chronic vision loss

• eye lens darkening

• Diabetic retinopathy

Eye bruises

• Conjunctivitis, corneal abrasion, corneal foreign body, corneal abscess, and keratoconjunctivitis inflammation

• Cellular tissue

- Deafness, conduction and sensory
- Ear infections
- Sinusitis and sinusitis
- Throat infections

Procedural skills

- Use an ophthalmoscope
- Use an otoscope

9- Teaching and Learning Strategies

The surgery branch, as is the case in other clinical branches, relies on the integrative curriculum adopted by Al-Zahraa College of Medicine since its establishment in 2017-2018 which is represented by theoretical lectures and small groups in a way to solve clinical problems. The focus is on the content and not just memorization, which makes the student able to study and deal correctly scientifically with... Medical cases, especially emergency ones. The course is divided into two parts. The first part is called the introductory part and lasts for two weeks in the form of lectures, 4 lectures per day, followed by a discussion circle for small groups in a way to solve clinical problems. The second part is the clinical part and lasts for six weeks during which the student works in teaching hospitals and see and also participates in Examination and treatment of medical conditions with seminars and direct supervision by the teaching specialist physician Also, every Thursday there is a seminar on a clinical topic that is prepared in advance and takes advantage of the clinical skills laboratory located in the college.

It includes the following:

- Attending outpatient clinics
- Monitoring examination procedures, communication skills with patients, and taking medical history
- Specific Clinical Cases: This section represents common presentations in which students are expected to take the history and examine the patient presenting for each of these cases and reflect on the basic science, pathology, clinical pharmacology, etc. as per each case. Learn basic examination skills and procedures.
- Accomplishing tasks: Conducting and interpreting blood tests, imaging studies, and examination results is essential to this professional block.

10- Course Structure

We ek	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 st - 2 nd	From 8:00 am to 3 pm	Knowledge of cases Common pathology And how to diagnose it And methods of treating it	eyes illnesses Nose and ear diseases And the larynx skin diseases	Theoretical lectures Explaining medical conditions	Theoretical tests Attendance record Students' performance is evaluated daily through individual evaluation and team evaluation in implementing the solution to the clinical problem, as well as weekly at the end of the week, a written exam in the subject of the previous week, and the practical performance is evaluated.
3 rd - 8 th	8:00 am To 3 pm	Learn how to deal with real-life situations And emergency situations And how to conduct tests different	eyes illnesses Nose and ear diseases And the larynx skin diseases	presence in Operating theaters presence in Outpatient clinics Attending centers Tests and inspection	Lock book and record Attendance and exam OSCE

Course Evaluation

Learning and Teaching Resources

Required textbooks (curricular books, any)	Student's book and lookbook
Main references (sources)	Kanski clinical ophthalmology American academy of ophthalmology Scott-brown otorhinolaryngology head and neck surgery Byron J Bailey head and neck surgery: otolaryngology Dermatology Jean L Bologna MD ANDREWS disease of the skin clinical dermatology
Recommended books and references (scientific journals, reports...)	Regulations for higher education and scientific research in Iraq, Ministry of Education - Leicester Medical University
Electronic References, Websites	Google classroom Students are notified of this at the beginning of each academic year and they register with their official university emails

5. Expected learning outcomes of the program

A-Knowledge

A1- Knowledge of the anatomical, histological and functional aspects of the five sense parts

A2-Knowledge of common disease conditions, their symptoms, and the basic principles of diagnosis and treatment

A3- Knowledge of common injuries and the basic principles of diagnosis and treatment, especially emergency cases.

A4-Knowing the devices used in diagnosing complications affecting the five sense organs, especially radiological devices, and how to use them in diagnosing pathological conditions and injuries.

- General knowledge of the devices and tools used in surgical interventions for pathological conditions and injuries related to the five sense organs.

A6- General knowledge of preventive methods to reduce the repercussions and complications of diseases and injuries of the five senses, as well as knowledge of how to deal with the patient from all physical, psychological and social aspects.

B-Skills

General and qualifying transferable skills - other skills related to employability and personal development

Dr . 1 During this block, students will learn about the following aspects of the cross-cutting themes:

- **Basic sciences:**

Dissect the special senses by spending a session in the dissection room

- **Pharmacology and therapy**

A review of the sympathetic and parasympathetic nervous systems

Pharmacology of nasal decongestants.

Treatment of acute eye infections

**Treating acute ear infections
infection**

Acute otitis media

paranasal sinuses

conjunctivitis

- **Photography**

Sinus x-ray

C-Values

(Emotional and value goals

- . Emotional and value goals
- C1- Communication skills
- C 2- How to deal with emergency situations
- A3. How to work within a team
- C4. Referral strategies
- A5. Knowing the laws and regulations when dealing with patients

Course Description Form

fifth stage

Course Name	.8
Reproductive Unit	
Course Code:	.9
Rep	
Quarterly / Yearly:	.10
yearly	
The history of preparation of this description	.11
2025 / 3 /21	
Available Attendance Forms:	.12
presence only	
Number of Credit Hours (Total) / Number of Units	.13
(Total):	
60 hours per semester (30 hours theoretical lecture and 30 hours small groups) *Number of units 4 where every 15 hours represents one unit	
Course administrator's name and email (if more than one name is mentioned)	.14
Name: Dr. Marwa Sadiq Mostafa Email : marwa.sadiq@uobasrah.edu.iq	
Course Objectives –8	

The overall goal of the module is that the student must understand the processes of human reproduction from the production of gametes to the establishment of life. Independent in a newborn. The student must understand common problems and disorders of the male and female reproductive system, and contraceptive mechanisms and sexual transmission of diseases.

9– Teaching and Learning Strategy

Since the establishment of the college in 2017-2018, the Microbiology Department at Al-Zahra College of Medicine has been using the integrative education style represented by lectures and discussions in small groups. Education is based on understanding the content without memorizing alone, which makes it easy for the student to remember the content. A two-hour lecture is given separately followed by a small group discussion of the content of these two lectures and the identification of all clinical cases related to the topic of the two lectures. This is done for each week for a period of 15 weeks, interspersed with a week for review and evaluation exam.

- Brainstorming education strategy
- Education Strategy Notes Series.

Course Evaluation –14

The evaluation of students is consistent with the evaluation requirements agreed upon in the College Council and is attached to the Council of Deans of Medical Faculties that follow the integrative approach by adopting 20% annual endeavor obtained from the mid-semester exam. The final exam is representative of 80% of the grade. In both exams, there will be two papers for the first exam, which are questions that are answered with short answers, which are with the rest of the modules to form complementary questions, the share of the module alone reproduction is 30 degrees out of 120 degrees. As for the second paper, the questions that are answered by the correct choice are also 30 out of 120 degrees. In both papers, the questions are distributed in a way that includes all the topics given to the students. The college also has an important evaluation program that explains to the teaching staff the development in the level of students called the Personal and Professional Development Program

15- Structure of course					
Evaluation method	Learning method	Unit or subject name		Required Learning Outcomes	Hours week
Weekly exam on the TBL team-based learning method as a way to improve learning outcomes by	The integrative learning style represented by lectures and discussions in small groups. Education is based on understanding the content without memorizing alone, which makes it easy for the student to remember the content. A two-hour lecture is given separately followed by a small group discussion of the content of these two lectures and the identification of all clinical cases related to the topic of the two lectures. This is for	Lecture 1: Origion of the sexes Lecture 2: Origion of the gametes		Describe the origin of the germ cell and the development of gonads in males and females. Description of the internal and external genitalia in males and females. Describe the development of the internal and external genitalia of male and female and their control by gonadolas. Description of common abnormalities in the development of the genitals. List of the main reproductive hormones. Describe the microstructure of the testicle, its main divisions and cell types. Describe the process of spermatogenesis.].Description of the sperm cycle and waves	4hours .35

promoting discussion among students.	each week and for a period of 15 weeks, interspersed with a week for review and evaluation exam	Lecture 1: hypothalamic pituitary gonadal axis. Lecture 2: The menstrual cycle.	_List the hormones involved in reproduction secreted by the hypothalamus, anterior and posterior pituitary gland, and gonads. • List of cell types in the anterior pituitary gland that produces any hormones. • Describe the control of gonadotropin secretion by the hypothalamus. Describe the work of gonads on the testicles and ovaries. • List of action of reproductive steroids in females and males. • Describe the changes that occur in the ovaries during the ovarian cycle and describe the changes in the endometrium and mention the phases of the menstrual cycle. • Describe the pattern of gonadotropin secretion and reproductive steroids during a normal menstrual cycle. • describe the mechanisms of the hypothalamus and pituitary gland underlying cyclic gonadotropin secretion and interactions between the ovaries and hypothalamus/pituitary gland Recall the actions of estrogen and progesterone in a non-pregnant woman. • Describe the effects of testosterone in males. • Explain how testosterone release is regulated by monitoring reactions.		.36
		Lecture 1: Puberty and menopause. Lecture 2:	-describe the sequence of physiological and anatomical changes that occur in males and females at puberty,		.37

		Abnormality of the menstrual cycle.	<p>-Describe the mechanism behind these changes at puberty -Describe the hormonal changes that lead to menopausal features</p> <ul style="list-style-type: none"> - List the advantages and disadvantages of hormone replacement therapy in postmenopausal women - describe common menstrual problems and how to evaluate and manage them in principle <p>outline terms used to describe common menstrual abnormalities, describe the effect of the menstrual cycle,</p> <ul style="list-style-type: none"> - Changes in control in the hypothalamus region of GnRH secretion - Changes in anterior pituitary function <p>-Changes in ovarian function</p> <ul style="list-style-type: none"> - Changes in uterine function <p>Distinguish between primary and secondary amenorrhea</p>		
		Lecture 1:clinical anatomy of the female	<p>Describe the basic anatomical structure of the female reproductive system</p>		.38

		reproductive system. Lecture 2: Pelvic floor. Lecture 3: Pelvic osteology.	. describe the functional anatomy of each structure in it in relation to reproduction, Describe clinical investigations and evaluations Imaging techniques – Linking anatomy to common clinical problems. Describe the structure and function of the pelvic floor and name the main muscle groups -Description of the function of the perineal body - List the causes and risk factors of pelvic floor dysfunction Describe the outline of available treatments for pelvic floor dysfunction. Description of the bone structure of the pelvis in females and males - Identify the bone features formed pelvic entrance and pelvic outlet - Description of the larger and smaller aquarium		
		Lecture 1: Clinical anatomy of male reproductive system. Lecture 2: Histological review of the male reproductive system	describe and identify the main anatomical structures of the male reproductive system . describe the anatomy of each structure with blood attached to it blood vessels and lymphatic vessels . Clinical examination and evaluation (imaging techniques) . Common clinical conditions Description of the functional tissues of the structures that make up the male reproductive system.		.39
		Lecture 1:sexually	Description of the epidemiology of sexually transmitted diseases. List the most common		.40

		transmitted infection. Lecture 2: pelvic inflammatory disease.	sexually transmitted diseases, identifying the organism causing the infection in each case. Provide differential diagnosis of common clinical syndromes and describe recent trends in the incidence of sexually transmitted diseases. Describe clinical presentation, diagnosis and management of chlamydia infection. Description of clinical presentation, diagnosis and management of gonorrhea. Description of clinical presentation, diagnosis and management of genital herpes. Description of clinical presentation, diagnosis and management of genital warts. Describe the clinical presentation, diagnosis and management of other STDs.		
		Lecture 1: conception. Lecture 2: contraception. Lecture 3: Subfertility.	- Describe the main methods of contraception, their advantages and disadvantages. - Describe the physiological processes involved in emission - Describe the physiological processes involved in penile erection . - Describe the physiological changes in females that facilitate the process of intercourse - Description of the ejaculation mechanism - Describe the process of sperm transfer through the cervix and uterus Describe sperm condensation processes and terminal particle reaction. - Describe the mechanisms involved in the process of fertilization of the egg		.41
		Lecture 1: maternal physiological	-Describe the main physiological changes that occur to the mother during normal pregnancy		.42

		changes in pregnancy. Lecture 2: Placental function and dysfunction.	<p>Describe how a mother's adaptation to pregnancy and fetal support affects the mother's nutritional requirements</p> <p>Describe how control of a mother's blood glucose level is affected by pregnancy and describe possible clinical consequences.</p> <p>_ Description of the concept implantation of the endometrium</p> <p>_ Describe the structure of the placenta, which is adapted for the exchange of substances between the blood of the fetus and the mother</p> <p>_ Description of the arrangement of fetal blood vessels within the placenta</p> <p>_ Description of factors affecting the negative diffusion of substances through the placenta</p> <p>.identify the main substances that are actively transported through the placenta, describe the role of the placenta as an endocrine organ that supports pregnancy</p> <p>_ Description of the hormonal basis of the pregnancy test</p> <p>Describe the function of the placenta as a provider of neonatal negative maternal immunity.</p>		
		Lecture 1: Fetal physiology,growth and development.	<p>-Determination of the fetal period</p> <p>- Describe the pattern of increasing fetal size, weight and body ratio during pregnancy</p> <p>Describe important events in the development of each of the major body systems .</p> <p>_ Describe the factors that affect the ability of the newborn to survive - _ Describe the effects of malnutrition on the fetus during early and late pregnancy</p> <p>-Description of fetal kidney function</p> <p>–describe the processes involved in controlling amniotic fluid volume and composition</p> <p>- Description of fetal circulation and changes that occur at birth</p> <p>-Description of fetal blood oxygen transfusion</p>		43

		Lecture 1:parturition Lecture 2: Labor and its abnormalities.	. Determination of the stages of labor Describe the processes needed to create a birth canal and their clinical evaluation. Describe the function and mechanisms of cervical maturation. . describe the characteristics of uterine smooth muscles that facilitate childbirth, Describe the natural physiological processes that begin labor, describe the immediate physiological changes in the newborn that enable him to lead an independent life. . Describe the processes that normally limit blood loss in the mother after birth. Description of the clinical evaluation of the female bone pelvis Describe the outline of the most common embryonic presentations Describe the principles of stimulating action		.44
		Lecture 1:lactation. Lecture 2:presentation of breast disease.	Description of the group of common breast diseases . Description of the differences between physiological and pathological conditions of the patient released . Describe the clinical manifestations of various breast conditions Describe different breast disease conditions in general and with regard to age . Describe how to screen and diagnose breast lesions . Describe the traits and significance of benign breast changes . Describe the features and importance of benign breast tumors. Describe the advantages and importance of breast cancer		.45

			<p>– Describe the types of breast cancer, breast cancer risk factors, its type of metastasis of breast cancer, and principles of breast cancer treatment</p>		
		<p>Lecture 1:tumor of the male reproductive system. Lecture 2:tumors of the female reproductive system.</p>	<p>Pathological features, epidemiology, possible pathogens, presentation, prevalence, principles of treatment of vulvar tumors Description of screening principles for cervical cancer Description of histological manifestations of cervical cancer Description of factors affecting the diagnosis of cervical cancer Description of the main features of pregnancy tumors Description of pathological manifestations, presentation and prognosis of ovarian cancer Description of pathological manifestations, presentation and diagnosis of endometrial adenocarcinoma Description of pathological features, presentation and diagnosis of tumors of myometrium tissue</p> <p>Pathological features, epidemiology, possible etiology, symptom, prevalence and principles of treatment of vulvar tumors. _Description of screening principles for cervical cancer . Description of histological manifestations of cervical cancer . Describe the factors that affect the diagnosis of cervical cancer 5. Description of the main features of pregnancy tumors . Description of pathological manifestations, presentation and prognosis of ovarian cancer . Description of pathological manifestations, presentation and diagnosis of endometrial disease Cancer Description of pathological manifestations, presentation and diagnosis of myometriomas.</p>		46

<p>Student workbook and record book Due to the scope of this unit (anatomy, histology, physiology, embryology, microbiology, etc., There is not a single recommended text. You should therefore support your learning from Over the reference to the following: Basic texts, as detailed in the list Reading stage 1 , Besides the recommended supplementary reading: Basic cloning (6th edition 2007,) Johnson, M.H. & Everett, BG, Blackwell Science. Detailed description of the physiology of reproduction Reproductive System at a Glance,) 3rd Edition Third 2010 (, Hefner , LG , Blackwell Science. A very basic review text. The following texts are included in the recommended texts It is for stage 2. So this module booklet contains a reading Suggested texts to help you develop your understanding of science Basic medical in a clinical context. obstetrics and gynecology at a glance , (4th edition, 2013,) Schorge, JO and Norwitz , E , . Blackwell Science . Basics of Hacker & Moore For Obstetrics and Gynecology, (Edition 5 2010 (, Neville F. Hacker Joseph C. Gambon, Calvin J. Hubble, 5th ed. Saunders. Elsevier. Fundamentals of Obstetrics and Gynecology (4th Edition 2003), Symonds and Simmonds, Churchill Livingstone. Obstetrics by ten teachers, (Edition) 19 , 2011 (, Kenny, L. C & Baker b. n. , Hodder Arnold. Gynecology by Ten Teachers (19th edition, 2011), Kenny, L. C. & Baker B. n. , Hodder Arnold. These should not be used as a basic scientific text. Requirements .</p>	<p>To read the required: • Basic texts • Course Materials آخر.</p>
<p>موودل</p>	<p>Special requirements (including, for example, workshops Work, periodicals and IT programs and websites)</p>

	Community facilities (including, for example, guest lectures, internships, and field studies

13-مخرجات التعلم المتوقعة للبرنامج

أ- Knowledge

1. Knowledge and understanding

Simply describe the embryonic and embryonic development of the female and male reproductive systems

- Describe the sequence of anatomical and physiological changes at puberty and the mechanisms of these changes
- Describe the anatomy of the male reproductive system, testicular tissue and accessory organs, and the formation of male gamete
- Description of the anatomy of the female reproductive system, tissues of the ovaries, uterus, cervix, vagina and breast
- Description of the ovarian and uterine cycles
- Describe and explain endocrine control in the menstrual cycle and describe in outline common menstrual abnormalities
- Describe the changes in menopause and their mechanisms Describe the processes involved in sexual intercourse
- Describe the mechanism of action of common forms of contraception List the causes of male and female infertility
- Description of fertilization and implantation processes
- Describe the roles of the placenta in maintaining pregnancy and describe the adaptations of the mother and fetus to pregnancy
- Describe the normal pattern of fetal development and the principles of detecting fetal abnormalities
- Describe the processes involved in normal labor, delivery and some common labor problems
- Describe lactation mechanisms
- Description of breast disorders, especially breast cancer and its treatment Description and detection of common sexually transmitted diseases

Its treatment is the description of common tumors of the female (and male) reproductive system.

ب-المهارات

B1 – Teaching and learning methods

Large group lectures and small group discussion

C-Values

.Emotional and value goals)

A1- . Thinking skills

Dr. Ed. General and transferable skills (other skills related to employment and personal development)

Course Description Form**fifth stage**

185.	Course Name:
	Perioperative Block
186.	Course Code:
	Pop
187.	Semester / Year:
	5 th Academic year.
188.	Description Preparation Date:
	2025
189.	Available Attendance Forms:
	Personal Attendance
190.	Number of Credit Hours
	(200) / Number of Units (10)
191.	Course administrator's name (mention all, if more than one name)
	Name: Ass. Prof. Jawad Ramadhan Fadhl Email: jawad.fadhl@uobasrah.edu.iq
192.	Course Objectives

The aims of this block are that students should be able to recognize common conditions affecting the general, urological, vascular, neurosurgical, and plastic surgery and follow patients through their journey into anesthesia and surgery, and describe their investigations, treatment, prevention and management. The block will provide exposure to a wide variety of elective and emergency surgical problems and their pre-, peri- and post-operative management. Included in this will be the management of a number of common cancers, common arterial and venous problems, and abdominal emergencies. It is also important that you should see a spectrum of emergency surgery. The only way to do this is to be present on the wards and to do shifts with the on-call team. The local teams will facilitate this. We urge you to make the best use of these opportunities. It is in these situations that experiential learning takes place in a manner that can never be gained from textbooks.

Procedural Skills: You are also advised to witness a number of practical procedures including duplex ultrasound and measurement of ABPI, passage of urinary catheters, issues around the passage of nasogastric tubes, and issues around prevention of bedsores. Your focus should be on consolidating your generic skills in history taking, examination, problem solving, patient management and communication skills.

It is of prime importance first to ensure that students have a sound understanding of the patient journey through an elective surgical procedure, including the principles of acute care in the perioperative period. Second, to expose students to patients with the common acute surgical problems, learn the management principles of these problems, specifically principles of surgery and breast disease. Third, the block will provide an introduction to airway management and other practical skills, patient monitoring and equipment.

193. Teaching and Learning Strategies

1- Theoretical lectures: Reading and preparing lectures that uploaded on the university's (Let's Learn) LiNata'lam platform (e learning), 48 hours before the lecture time. To prepare for the discussion in an interactive manner during the lecture giving.

2. Seminars and discussion workshops. 3- Case- discussion (case-based learning) in small groups. 4- Practical training in hospital wards, operating halls, emergency departments, specialized centers, and consultation outpatient's clinics.

Attendance at outpatient's clinics and operating rooms.

Attendance at the surgical inpatient unit and registration and monitoring of emergency patients.

Attendance of emergency operations.

Monitoring the following procedures: Emergency laparotomy, elective laparotomy (non-emergency), Laparoscopy. Endoscopy of the upper and lower digestive system.

194. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
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1 st - 2 nd	5 hours f From 8:00 am to 2:30 pm	<p>Learn about the main principles of patient care before and after surgery</p> <p>Knowledge of the general principles of anesthesia, its types and post-anesthesia complications</p> <p>Wound infection and sterilization, for surgical aspects of tumors and neck lumps. Care of vascular diseases. Care of patients with plastic surgery, burns and congenital malformations</p> <p>Care for benign and malignant breast diseases and adrenal gland diseases. Safe ways to give blood transfusion and the indication for giving it. Metabolic response shock, trauma shock states, methods of nutrition (enteral and parenteral), intravenous fluid administration and electrolyte disturbances</p> <p>Acid- base imbalance.</p> <p>Care of patients with urinary and genital tract</p> <p>urinary tract's tumors, infections, stones, injury and impotence. Care for patients with chest injuries, lung tumors, chronic lung infections, tuberculosis, hydatid cyst disease and diaphragmatic diseases.</p> <p>Care for patients with</p>	perioperative block	Lectures, discussion of case presentations	Assessment questions. Attendance and activity. Case-discussion evaluation.
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		head and spine injuries, brain tumors, and congenital malformation. Know how to care for a foot for diabetics			
3 rd -8 th	5 hours from 8:00 am To 2:30 pm	Recognize the basic procedures for patient care before and after surgery. The ability to face real life situations and deal with them quickly and accurately.	Practical application of clinical tours and discussion of patient cases in the field of patient care before and after surgery	Presence in consultants and outpatient clinics. Presence in surgical wards. Presence in emergency operating rooms. Attending major operations. Anesthesiology clinics. Patient's management before and after surgery. Clinical sessions. Clinical Skills lab, emergency department . Basic Procedure skills, and identification of surgical instrument	The student's handbook for cases and activities he performs daily during the practical training. (Logbook). Daily attendance activity. Practical Examination OSCE.

				s. Discussion of clinical presentatio n or conditions.	
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195. Course Evaluation

At the end of the block, a report will be submitted to the Faculty on whether each student:

Attend all specific compulsory classes and other clinical classes as appropriate.

Complete the required tasks specified in the unit logbook record.

Satisfactorily complete structural assessments (as appropriate), including medical consultation skills and knowledge-based assessments.

Commitment and demonstration of professional attitudes and behaviors.

The Board of Examiners in the second phase, or a subset thereof (members of the block's teachers), reviews the reports (logbook) of the unit record and the scientific progress of each student at regular intervals, and determines the appropriate action in the event that any student does not satisfactorily complete all aspects of the unit assessment.

1- Short exams weekly.

2- A theoretical exam that includes questions. It has single best answer questions (choose the most correct answer out of five options) and each question in the form of a clinical presentation or a condition that followed by five options. The number of questions in examination paper ranges from 100-120 questions and the allowed time is three hours.

3. The end-of-module practical exam, which includes 8-10 stations OSCE (Objective Structural Clinical examination).

4- Daily evaluation of the performance of students in small groups and participation in the presentation of seminars and during clinical training.

5- Evaluating the student within special fields in the student's practical handbook (Clinical training Logbook)

196. Learning and Teaching Resources

Required textbooks (curricular books, any)	Student work book. Student logbook. Lectures
Main references (sources)	Bailey and Love's short practice of surgery, 27 edition published in 2018
Recommended books and references (scientific journals, reports...)	Advanced Trauma Life Support, Student Course Manual, Tenth Edition, Copyright© 2018 American College of Surgeons. Management of critically ill surgical patient.

	Illustrative atlases of materials used in critical cases, emergency departments and surgical instrument manuals.
Electronic References, Websites	MOODLE Medscape Teaching videos.

6. Expected learning outcomes of the program

Knowledge

By the end of the module, the student should be able to:

1. Explain the principles of preoperative assessment to the patients and identify patients with high-risk surgery.
2. Participate in the preparation and planning in the preoperative period for high-risk patients.
3. Prescribing preoperative therapeutic measures for patients with diabetes.
4. Describe the general principles of anesthesia and the use of common anesthetic agents.
5. Determine the level of medical care that the patient will need after surgical interventions.
6. Develop a list of common post-surgical problems with the nature of the accompanying symptoms and methods and treatment.
7. Writing prescriptions for strong, medium and low analgesics in the postoperative period.
8. Observance of the appropriate dosages, methods of administration of drugs, side effects and contraindications.
9. Management of a patient receiving patient-controlled analgesics or epidural analgesia.
10. Evaluate the critically ill patient using a standard approach and initiate initial resuscitation including patients with acute renal failure, acute respiratory failure and acute confusion.
11. Calculate the daily fluid requirements of children and adults taking into account the impact of illness, surgery and trauma.
12. Organize safe and appropriate blood transfusions.
13. Recognize the need for monitoring through the central lines and associated complications.
14. Use and interpret oxygen saturation, through a pulse oxy-meter.
15. Recognize and manage airway obstruction.
16. Perform basic skills to provide a safe airway maintenance.

Skills

1. Identify and treat a patient with an "acute abdomen.
2. Describe cases of common benign and malignant diseases of the gastrointestinal tract.
3. Describe the principles of vascular surgery, including bypass surgery and vasodilation surgery for the aorta.
4. Describe the principles of plastic surgery including reconstructive surgery.
5. Classification of burns and actively participate in the early and late management of burn patients.
6. Organize a safe approach for patients with head trauma, and apply GCS (Glasgow Coma Level).
7. Describe the common causes of tumors in the brain, space- occupying lesions (SOL) and their treatment methods.
8. Describe the common symptoms of patients with urinary tract stones, useful tests for them and different treatment plans.
9. Identify common urinary tract tumors and their impact on life.
10. Describe the common causes of acute scrotal swellings.
11. Identify common causes of urinary tract infection, useful tests, prevention and treatment.
12. Identify people with erectile dysfunction and its impact on their sexual and social life.

Ethics

1. Identify common diseases that affect systems and organs.
2. The ability to identify common differential diagnoses between these diseases.
3. Use effective communication skills to obtain the right medical history.
4. Conducting an effective and correct clinical examination to reach the diagnosis of the conditions in a safe and professional manner.
5. The ability to formulate a plan for how to treat each patient according to the data of medical history, clinical examination, selected and confirmatory investigations.
6. Gain knowledge about medical-legal issues.
7. Develop and encourage the collaboration, cooperation and teamwork within the same group to find the correct diagnosis and thus the correct treatment.
8. Exchange of information and discussions between different groups.
9. Enhancing students' self-confidence to present and discuss their ideas and instill the values of responsibility and leadership in them.
10. Encourage them to search for information instead of waiting to receive it.

Course Description Form

fifth stage

1. Course Name:	
Child Health Block.	
2. Course Code:	
3. Semester / Year:	
2 nd Semester.	
4. Description Preparation Date:	
1/10/2023	
5. Available Attendance Forms:	
Placement Hospital Based learning	
6. Number of Credit Hours (Total) / Number of Units (Total)	
48 hours of lectures and small group discussion. 180 hours of clinical training. 5 hours / day.	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr Miami Kadhum Youssef Email: Miami.yousif@uobasrah.edu.iq	
8. Course Objectives	
Course Objectives	By the end of the course students should know how to: - <ul style="list-style-type: none"> take a history from a child or carer. examine a child; do a developmental assessment. formulate a differential diagnosis. discuss and interpret findings. manage common pediatric problems. perform simple, practical procedures.
9. Teaching and Learning Strategies	
Strategy	Lectures. Small group discussion. Seminars. Hospital and health care centers based clinical training.
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 st	5 hrs./day	Growth Development Puberty Disorders of sexual maturation Pediatric infections Neonatal infections Neonatology	growth and development puberty neonatology	lectures & Small group	Assessment of participation. attendance end of block written exam
2 nd	5 hrs./day	Breast feeding & Nutrition type of inheritance & genetic counselling chromosomal abnormalities CNS infections Cerebral palsy Hypotonia Haemoglobinopathies G6PD Spherocytosis IDA other types of anemia ITP Coagulation disorders Hematologic malignancies	Nutrition Genetics Neurology Hematology Oncology		
3 rd -8 th	clinical training	hospital and health care center based clinical training	history examination management procedures	case discussion	workplace assessment end of block OSCE
11.Course Evaluation					
<ul style="list-style-type: none"> • Attendance. • written exam. • OSCE. • Portfolio case presentation. • Clinical training Logbook. • 					
12.Learning and Teaching Resources					

Required textbooks (curricular books, if any)	Nelson Essential of Pediatrics, 20 th edition.
Main references (sources)	Illustrated Textbook of Pediatrics, 4th Edition Pediatric Decision-Making Strategies, 2nd Edition
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

13. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Ass. Prof. Dr. Miami Kadhum	Consultant Pediatrics				Staff	
Dr Rehab Abdulwehab	Pediatrician					Lecturer
Dr Ahmed Jaafer	Endocrinologist					Lecturer
Dr Dhaigam Emad	Endocrinologist					Lecturer
Dr Ahmed Ibrahim	Endocrinologist					Lecturer
Dr Basim Abdulkareem	Consultant pediatrics					Lecturer

14. Expected learning outcomes of the program	
Knowledge	
<u>Learning Outcomes 1</u> Prepare the students to become a safe doctors and they will be able to manage children in needs, and take care of children during health and disease.	<u>Learning Outcomes Statement 1</u> The student will demonstrate knowledge of the common acute pediatric illnesses (including salient history, physical exam findings, epidemiology, management, and severity) for each of the following presenting complaints: Cough - Wheeze - Limp - Heart Murmur - Fever - Hematuria - Headache - Organomegally - Sore Throat - Vomiting Seizure - Abdominal Mass - Ear Pain - Diarrhea Petechiae/Purpura - Abdominal Pain - Runny Nose - Rash Lymphadenopathy - Proteinuria - Pallor - Anemia - Developmental Delay - Vision/Hearing Problems Knowledge of the common pediatric chronic illnesses (including salient history, physical exam findings, epidemiology, management and severity) for each of the following: inherited anemia, hemostatic disorders, chronic

	renal failure, nephrotic syndrome, congenital heart diseases, heart failure, short stature etc.
Skills	
<u>Learning Outcome2</u> History taking, physical examination and management of certain diseases. Procedural skills	<u>Learning Outcomes Statement2</u> Perform a medical interview and a physical examination for a patient with a chronic illness. Give suggestions for the therapeutic plan appropriate to the final diagnosis. Present a complete, well-organized verbal summary of the findings of the patient's history and physical examination, modifying the presentation to fit the situation. Prepare a complete written summary of the history and physical examination. Be able to certain core procedural skill like IM injection, cannulation, IV fluid, nebulizer and drug administration.
<u>learning Outcome 3</u> participation in researches	<u>learning Outcome Statement 3</u> Critically use the medical literature to obtain current information relative to the patient. be able to participate in a research writing. be able to write and present a lecture.
Ethics	
<u>Learning Outcomes 4</u> Effectively communicate information about the diagnosis and treatment to the patient and family.	<u>Learning Outcomes Statement 4</u> Treat children and their families with empathy and respect, and show respect to children in different age group. Respect human body during examination, and take consent from the parent to examine their child.

Professional Development
Mentoring new faculty members
New, visiting, full-time, and part-time faculty at the department will be mentored by a qualified faculty member, they participate as observer for the lectures, small group discussions, clinical training and OSCE for a full semester. Their work will be evaluated by a special assessment form. They participate in workshops, symposium and scientific days. they involved in a training programs especially those for medical education.

Professional development of faculty members
<p>The academic and professional development plan and arrangements for faculty such as teaching and learning strategies up dated and discussed each semester.</p> <p>Assessment of learning outcomes is done frequently. There are preparation days meetings in each semester.</p> <p>Participation in researches, workshops, symposiums and national and international scientific conferences.</p> <p>assessment also take in account clinical, social, community based work.</p>

Course Description Form

Sixth stage

197.	Course Name:	
		Hematology and oncology
198.	Course Code:	
		Can
199.	Semester / Year:	
		semester
200.	Description Preparation Date:	
		24/2/2025
201.	Available Attendance Forms:	
		attending
202.	Number of Credit Hours (Total) / Number of Units (Total)	
		180 semester hours (40 theoretical lecture hours and 140 clinical hours) Number of units 12, where every 15hrs represents one unit
203.	Course administrator's name (mention all, if more than one name)	
		Name: dr qutaiba muslim dawood Email: qutaiba.dawood@uobasrah.edu.iq
204.	Course Objectives	
	Course Objectives	<ol style="list-style-type: none"> 1) The general objective of this course is to provide the student with the knowledge and skills necessary to diagnose and treat inherited and acquired blood disorders and tumors in a way that helps to save the patient's life or preserve the functions of the affected organs. 2) Dealing scientifically and professionally with emergency cases and laboratory Scientific and practical methods with such cases. 3) Encourage the student to enter the training program in the foundation and subsequent postgraduate training programs and providing him with the necessary skills for management and basic treatments for these disorders in accordance with modern and internationally approved scientific foundations
205.	Teaching and Learning Strategies	
	Strategy	The branch of internal medicine, as in other clinical branches, depends on the

	integrative curriculum adopted by Al-Zahra College of Medicine since its establishment in 2017-2018, which is represented by theoretical lectures and small groups in a way to solve clinical problems, and the focus is on content and not only memorization, which makes the student able to deal scientifically with clinical cases, especially emergency ones. The course is divided into two parts, the first part is called the introductory part and lasts for two weeks in the form of lectures by 4 lectures per day, followed by coarse of small groups in a way to solve clinical problems, while the second part is the clinical part and lasts for six weeks in which the working hours are in teaching hospitals in which the student sees and also participates in the examination and treatment with panel discussion and under the direct supervision of the teaching specialist doctor Also, every Thursday there is a seminar on a clinical topic that is prepared in advance and takes advantage of the clinical skills laboratory in the college
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206. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	25	Understand the principles of inherited and acquired blood diseases , how to diagnose and tests required, types of conservative and interventional treatment, complications, how to prevent them and how to deal with them if they occur	Symptoms of anemia -diagnosis -types of anemia - work up	The pattern of integrative education, represented by lectures and discussions in small groups in a way to solve clinical problems. Education is based on understanding the content and not just memorization which makes it easier for the student to remember the content. 4 lectures are given followed by a small group discussion on the content of those lectures and identifying all clinical cases related to the topics of the lectures. At the end of this is for every day	The performance of students is evaluated daily through individual evaluation and implementation in clinical problems, as well as weekly at the end of the week written evaluation in the previous week subject and practical performance evaluation
2	25	Understand the principles of oncological and other diseases, their symptoms, how to diagnose and treat them according to the latest products and international guidelines	Oncology and hematology /sign symptom and workup		
3	24	Knowing how to take the clinical history of the disease and clinical examination in the laboratories of hematology,	Observed history taking in hematology and oncology unit, medical wards & Emergency unit		

		oncology and internal medicine, how to deal with critical cases in the emergency department, and how to deal with the patient in the consulting divisions in the Hematology Center and the Oncology Center, by dividing students into six small groups whose place of work changes weekly for a period of six weeks and in Basra teaching hospitals, which are the Teaching Hospital and Al-Sayyab Hospital		for a period of two weeks	
4	24	Knowing how to take the clinical history of the disease and clinical examination in the lobbies of hematology, oncology and internal medicine, how to deal with critical cases in the emergency department, and how to deal with the patient in the consulting divisions in the Hematology Center and the Oncology Center, by dividing students into six small groups whose place of work changes weekly for a period of six weeks and in Basra teaching hospitals, which are the Teaching Hospital and Al-Sayyab Hospital	Observed history taking in hematology and oncology unit, medical wards & Emergency unit		
5	24	Knowing how to take the clinical history of	Observed history taking		

6	24	<p>the disease and clinical examination in the lobbies of hematology, oncology and internal medicine, how to deal with critical cases in the emergency department, and how to deal with the patient in the consulting divisions in the Hematology Center and the Oncology Center, by dividing students into six small groups whose place of work changes weekly for a period of six weeks and in Basra teaching hospitals, which are the Teaching Hospital and Al-Sayyab Hospital</p> <p>Knowing how to take the clinical history of the disease and clinical examination in the lobbies of hematology, oncology and internal medicine, how to deal with critical cases in the emergency department, and how to deal with the patient in the consulting divisions in the Hematology Center and the Oncology Center, by dividing students into six small groups whose place of work changes weekly for a period of six weeks and in Basra teaching hospitals, which are the Teaching Hospital and Al-Sayyab Hospital</p>	<p>in hematology and oncology unit, medical wards & Emergency unit</p> <p>Observed history taking in hematology and oncology unit, medical wards & Emergency unit</p>		
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7	24	Knowing how to take the clinical history of the disease and clinical examination in the lobbies of hematology, oncology and internal medicine, how to deal with critical cases in the emergency department, and how to deal with the patient in the consulting divisions in the Hematology Center and the Oncology Center, by dividing students into six small groups whose place of work changes weekly for a period of six weeks and in Basra teaching hospitals, which are the Teaching Hospital and Al-Sayyab Hospital	Observed history taking in hematology and oncology unit, medical wards & Emergency unit		
8	24	Knowing how to take the clinical history of the disease and clinical examination in the lobbies of hematology, oncology and internal medicine, how to deal with critical cases in the emergency department, and how to deal with the patient in the consulting divisions in the Hematology Center and the Oncology Center, by dividing students into six small groups whose place of work changes weekly for a period of six weeks and in Basra teaching hospitals, which are the Teaching Hospital and Al-Sayyab Hospital	Observed history taking in hematology and oncology unit, medical wards & Emergency unit		

207. 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	
208. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	The recommended textbook is Ralston, S. H., Penman, I. D., Strachan, M. J., & Hobson, R. (Eds.). (2018). Davidson's principles and practice of medicine (21 st ed.). Elsevier Health Sciences.
Recommended books and references (scientific journals, reports...)	Macleod's Clinical Examination 14th Edition by J. Alastair Innes BSc PhD FRCP Ed (Editor), Anna R Dover PhD FRCP(Ed) (Editor)
Electronic References, Websites	Google classroom

7. Expected learning outcomes of the program	
Knowledge	
I.	Knowledge of the anatomical, histological and functional aspects of blood parts and lymph nodes .
II.	Knowing common conditions, their symptoms and the basic principles of diagnosis and treatment .
III.	Knowledge of common injuries and the basic principles of diagnosis and treatment, especially emergency cases.
IV.	Knowing the devices used in diagnosing genetic and acquired cases .
V.	General knowledge of preventive methods to reduce the repercussions and complications of blood diseases and cancerous conditions, as well as knowledge of how to deal with the patient in all physical, psychological and social aspects
Skills	
I.	Graduating safe and competent doctors by providing results-based medical education that enables medical students to acquire knowledge, skills and attitudes relevant to the health care system and responds to the health needs of the community.

- II. Provide patient-centered care, with a focus on a compassionate approach by applying effective communication skills, humanitarian and ethical principles in all aspects of medical practice .**
- III. Prepare the necessary infrastructure for a scientific environment that supports long-term problem-based learning, fosters innovative achievements, and encourages exchange and partnership programs .**
- IV. The ability to deal with blood diseases and tumors, especially critical ones**
B5- The ability to scientifically link the symptoms that appear on other body systems to reach an accurate diagnosis of anchor cases .
- V. The possibility of conducting clinical, radiological and laboratory tests appropriate for each case to reach the diagnosis and then treatment and at the appropriate speed to obtain the best therapeutic results**

Ethics

- I. Graduating academic doctors and making human values the basis of their work.**
- II. Professional doctors who take into account the psychological and ethical aspect of the medical profession.**
- III. Doctors who confidently deal with patients and keep the secrets of their patients. C4- Doctors working in a team spirit and cooperating with each other to solve medical and societal problems**

Course Description Form

Sixth stage

Course Name:	
Chronic Care block	
Course Code:	
Chr.	
Semester / Year:	
year	
Description Preparation Date:	
29/12/2025	
Available Attendance Forms:	
Attendance only	
Number of Credit Hours (Total) / Number of Units (Total)	
100 hour per semester (25 hours lectures, 100 hours clinical training) Number of unit 12 unit, every 15 hour represent one unit	
Course administrator's name (mention all, if more than one name)	
Name: Assis. Prof. Dr. Firas Rasheed e- Mail: firas.alobaidi@uobasrah.edu.iq	
Course Objectives	
Course Objectives	<ol style="list-style-type: none"> 1. The general goal of this course is to provide the student with knowledge of the aging process and its effect on clinical signs of disease from both the medical aspect and the aspect of teamwork as a team related to other specialties, diagnostically and therapeutically. 2. Scientific and professional dealing with chronic diseases and lesions that affect the nervous system and other body systems in the elderly. 3. Learn scientific and practical methods and skills to avoid or reduce the repercussions of these injuries and chronic diseases.
Teaching and Learning Strategies	
	<p>The branch of internal medicine, as in other clinical branches, depends on the integrative curriculum adopted by Al-Zahra College of Medicine since its establishment in 2017-2018, which is represented by theoretical lectures and small groups in a way to</p>

	<p>solve clinical problems, and the focus is on content and not only memorization, which makes the student able to recall and deal scientifically with pathological cases, especially emergency ones. The course is divided into two parts, the first part is called the introductory part and lasts for two weeks in the form of lectures by 4 lectures per day, followed by a ring for small groups Under the direct supervision of the teaching specialist doctor</p> <p>Also, every Thursday, there is a seminar on a clinical topic that is prepared in advance and takes advantage of the clinical skills laboratory in the college</p>
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Course Evaluation

	<p>The evaluation of students shall be consistent with the evaluation requirements that have been agreed upon in the College Council and with the approval of the Council of Deans of the Colleges of Medicine that follow the integrative approach, by adopting 20% of the annual endeavor obtained from the semi-semester theoretical and clinical examination (mid exam), and the final examination shall represent 80% of the examination Class.</p> <p>In both exams, the theoretical exam is conducted in the form of clinical problems, with multiple-choice question papers and the other is short answers, which are combined with the rest of the blocks to form complementary questions. The share of the chronic care and geriatrics block in each of the two papers is 10 marks out of 120 marks, and in both papers, the grade is distributed. The questions include all the academic topics given to the students</p> <p>As for the clinical exam, it is done using the OSCE station method. In addition, each student must submit a logbook containing the skills he learned during the clinical training, and this is considered a condition for the student to fulfill the requirements for completing the curriculum approved in the block.</p> <p>The college also has an important evaluation program that shows the teaching staff the progress achieved in the level of students, called the Personal and Professional Development Program.</p>
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Couse Structure					
Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Weeks
The performance of students is evaluated daily through individual evaluation and team evaluation in implementing the	The integrative education style consists of lectures and discussions in small groups by	Understanding and realizing the mechanism of aging, its	Understanding and realizing the mechanism of aging, its pathology, and	25	.47

<p>solution to the clinical problem, as well as weekly at the end of the week a written examination in the subject of the previous week. Practical performance is evaluated by testing their abilities in dealing with the pathological cases that the students faced during the day and how to evaluate and deal with them. This is done through a panel discussion at the end of the day</p>	<p>solving clinical problems. Education is based on understanding the content, not just memorization, which makes recalling the content easy for the student. 4 lectures are given, followed by a discussion in small groups about the content of those lectures and identifying all clinical cases related to the topic of the lectures. This happens every day for two weeks</p>	<p>physiology, and its differences pathologically and clinically from common adult diseases in terms of signs of disease presentations and different treatment approaches. Mechanism for prescribing treatments and drugs for the elderly. Mechanisms for conducting clinical examinations for the elderly. Problems of frequent falls and dementia stroke, fit and Parkinson disease. Models of brain disorders and diseases. Diagnosis of brain lesions using diagnostic imaging and magnetic resonance imaging</p>	<p>its pathological and clinical differences from common adult diseases in terms of signs of disease appearance and different methods of treating them. Mechanism for prescribing treatments and drugs for the elderly Mechanisms for conducting clinical examinations for the elderly Problems of frequent falls and dementia Models of brain illnesses and diseases such as strokes, epilepsy, and Parkinson's disease Diagnosis of brain lesions using diagnostic imaging and magnetic resonance imaging</p>		
		<p>Understanding the principles of clinical examination for all bodily systems, especially the</p>	<p>Understanding the principles of clinical examination for all bodily systems, especially the</p>	25	.48

		nervous system, heart and respiratory systems, and discussing common diseases within target groups of patients.	nervous system, heart and respiratory systems, and discussing common diseases within target groups of patients.		
		Knowing how to take a disease history and conduct a clinical examination in the internal medicine and neurology halls by dividing the students into three small groups whose work location changes weekly for two weeks and in the Basra teaching hospitals, which are the Basra Teaching Hospital, Al-Sadr Teaching Hospital, Al-Sayyab and Al-Naft Hospital, in addition to some model health centers. And following up on the cases of vulnerable groups who come in for advice and treatment for	Knowing how to take a disease history and conduct a clinical examination in the internal medicine and neurology halls by dividing the students into three small groups whose work location changes weekly for two weeks and in the Basra teaching hospitals, which are the Basra Teaching Hospital, Al-Sadr Teaching Hospital, Al-Sayyab and Al-Naft Hospital, passing through some model health centers and follow-up. Solutions for vulnerable groups who come to seek advice and receive treatment for chronic diseases	25	.49

		<p>chronic diseases</p> <p>Intensive training on complementary and procedural matters on how to take a disease history and conduct a clinical examination in the internal medicine and neurological departments in the aforementioned hospitals and some in model health centers.</p>	<p>Intensive training on complementary and procedural matters on how to take a disease history and conduct a clinical examination in the internal medicine and neurological departments in the aforementioned hospitals and some in model health centers .</p>		
		<p>The practical exam is in the form of OSCE stations distributed among the previously mentioned hospitals and through committees of qualified teachers.</p>	<p>The practical exam is in the form of OSKI stations distributed among the previously mentioned hospitals and through committees of qualified teachers.</p>		.50

Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Chronic Care block workbook
Main references (sources)	<p>The recommended textbook is</p> <ul style="list-style-type: none"> • Davidson's principles and practice of medicine (23rd ed.). Elsevier Health Sciences.
Recommended books and references (scientific journals, reports...)	<p>Macleod's Clinical Examination 14th Edition by J. Alastair Innes BSc PhD FRCP Ed (Editor), Anna R Dover PhD FRCP(Ed) (Editor)</p>

Electronic References, Websites	Google classroom
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Academic Rank	Specialization		
	General	Specialty	Staff
Firas Rasheed Sayel	Internal medicine	Cardiology	Staff
Mohammed Adel Abdulhasan	Internal medicine	Internist	Staff
Mazin Abd Haza'a	Internal medicine	Cardiology	Staff
Ali Mohammed Radi	Neurosurgery	Neurosurgery	Staff
Mustafa Imad Omran	Internal medicine	Rheumatology	Staff
Quitaiba Muslim Awad	Internal medicine	Hematology	Staff
Zuhair Abdulkareem	Internal medicine	Internal medicine	Lecturer
Zainab Abdulmohsen	Neurosurgery	Neurosurgery	Staff

Course Description Form

Sixth stage

Course Name:	Mental Health & Neurology
Course Code:	Phsy
Semester / Year:	year/ Sixth stage
Description Preparation Date:	27 / 05 / 2025
209. Available Attendance Forms:	Attendance Only
210. Number of Credit Hours (Total) / Number of Units (Total)	210 Credit hours (30 hours Lectures & Small Groups Learning, and 150 hours Clinical training) * The Number of Units are 9 (1 Unit is equal to 15 Credit Hours/ Lectures & Small Groups; 1 Unit is equal to 30 Credit Hours/ Clinical training)
211. Course administrator's name (mention all, if more than one name)	Name: Dr. Abbas Jumaa Hamdan Email: abbasjumah@uobasrah.edu.iq
212. Course Objectives	<p>1 Using communication skills to obtain clinical information from the patient to ensure reaching a final diagnosis of psychological and neurological diseases.</p> <p>2– Teaching the student how to take a medical history and clinical examination of the nervous system, including the patient's mental state and knowing the normal and pathological clinical signs.</p> <p>3– Knowing the abnormal developments in personality that can lead to the emergence of psychological diseases and how to treat them.</p> <p>4– Knowledge of common neurological diseases and how to diagnose and treat them.</p> <p>5– Use appropriate laboratory and imaging tests as a supportive means to reach a diagnosis of the disease.</p>

213. Teaching and Learning Strategies

The internal medicine Department, as is the case in other clinical Departments, relies on the integrative curriculum adopted by Al-Zahraa College of Medicine since its founding in 2017-2018, which is represented by theoretical lectures and small groups in a way to solve clinical problems, which makes the student able to deal with medical cases, especially emergency ones. The course is divided into two parts. The first part is called the introduction and continue for two weeks and includes lectures followed by small groups discussion in a way to solve clinical problems. The second part is the clinical part and continue for four weeks. The student works in educational hospitals where he observes and also participates in examining and treating medical cases with Discussion sessions under the direct supervision of the teaching physician.

Also, every Thursday there is a seminar on a clinical topic that is prepared in advance and takes advantage of the clinical skills laboratory that located in the college

214. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	25 hours	Understanding the principles of mental illness, how to diagnose it, the tests required, the types of treatments used, the complications, and how to deal with them if they occur	<ul style="list-style-type: none"> • Introduction of course and overview of psychiatry • Introduction of psychosis and clinical features and management of schizophrenia • Bipolar affective disorder, introduction and clinical features • Management of depressive and Manic Phase • Antipsychotic drugs, Anxiolytic drugs • Antidepressant and mood stabilizer drugs. • Introduction AND management of personality disorder 	The integrative education consists of lectures and discussions in small groups in a way that solves clinical problems. Lectures are given, followed by small group discussion of the content of those lectures and identification of all clinical cases related to the topic of the lectures. This is for every day for a period of two weeks, then followed by 4 weeks, where the student is seen in teaching	The performance of students is evaluated daily through individual evaluation and team evaluation in implementing the solution to the clinical problem, as well as on weekly basis (at the end of the week by performing a written examination for the subject of the previous week). Practical performance is evaluated by testing their abilities in dealing with the medical cases that the students

			<ul style="list-style-type: none"> • Suicide and Para Suicide and Risk Assessment • Substance misuse (drugs and alcohol) • Management of drugs and alcohol 	hospitals and also participates in examining and treating medical cases with discussion sessions and under the direct supervision of the teaching physician. Also, every Thursday there is a seminar on a clinical topic that is prepared in advance and takes advantage of the clinical skills laboratory located in the college.	faced during the day and how to evaluate and deal with them. This is done through a group discussion at the end of the day
2	25 hours	Understanding the principles of psychological / neurological diseases, how to diagnose them, the tests required, the types of treatments used, complications, and how to deal with them if they occur.	<ul style="list-style-type: none"> • Clinical features, Causes, Differential diagnosis and assessment of Dementia • Delirium, Clinical features, etiology and Management • Other organic disorders: Organic psychiatric disorders, Amnesic syndrome, Epilepsy and Other medical disorders associated with psychiatric disorders • Anxiety disorder: introduction and classification Clinical picture of GAD, panic attack and agoraphobia • Management of anxiety disorder Obsessive compulsive related disorder (OCD) • Stroke • Cranial Nerves • Epilepsy • Extrapyrarnidal system • Multiple sclerosis • Peripheral neuropathy • Myelopathy • Infectious • Neuromuscular Junction Disorders • Headache 		
3	25 hours	Knowing how to take a medical	Observed history taking and General		

		history and conduct a clinical examination in the neurological, psychiatric, internal medicine and intensive care wards and how to deal with critical cases in the emergency and intensive care units and cold cases in the advisory units, by dividing the students into groups whose training location changes weekly in the Basrah teaching hospitals (Basrah Hospital, Al-Sadr Teaching Hospital, and Al-Sayyab Hospital)	examination in the ICU unit, Neurology, Psychiatric, Medical wards and the casualty unit		
4	25 hours	Knowing how to take a medical history and conduct a clinical examination in the neurological, psychiatric, internal medicine and intensive care wards and how to deal with critical cases in the emergency and intensive care units and cold cases in the advisory units, by dividing the students into groups whose training location changes weekly in the Basrah teaching hospitals (Basrah Hospital, Al-Sadr Teaching Hospital,	Observed history taking and General examination in the ICU unit, Neurology, Psychiatric, Medical wards and the casualty unit		

		and Al-Sayyab Hospital)			
5	25 hours	Knowing how to take a medical history and conduct a clinical examination in the neurological, psychiatric, internal medicine and intensive care wards and how to deal with critical cases in the emergency and intensive care units and cold cases in the advisory units, by dividing the students into groups whose training location changes weekly in the Basrah teaching hospitals (Basrah Hospital, Al-Sadr Teaching Hospital, and Al-Sayyab Hospital)	Observed history taking and General examination in the ICU unit, Neurology, Psychiatric, Medical wards and the casualty unit		
6	25 hours	Knowing how to take a medical history and conduct a clinical examination in the neurological, psychiatric, internal medicine and intensive care wards and how to deal with critical cases in the emergency and intensive care units and cold cases in the advisory units, by dividing the students into groups whose training location changes weekly in	Observed history taking and General examination in the ICU unit, Neurology, Psychiatric, Medical wards and the casualty unit		

		the Basrah teaching hospitals (Basrah Hospital, Al-Sadr Teaching Hospital, and Al-Sayyab Hospital)			
215. Course Evaluation					
<p>The evaluation of students is consistent with the evaluation requirements that have been agreed upon in the College Council and with the approval of the Council of Deans of the Colleges of Medicine that follow the integrative approach, by adopting 20% of the annual effort obtained from the semi-semester theoretical and clinical examination (mid exam), and the final examination represent the remaining 80%.</p> <p>In both exams, the theoretical one is in the form of clinical problems and consists of two papers, the first paper is Best Choice questions and the second is short answers. In both papers, the questions are distributed in a way that includes all the academic topics that were given to the students.</p> <p>As for the clinical exam, it is done using the OSCE station method. In addition, each student must submit a logbook containing the skills he learned during the clinical training, and this is considered a condition for the student to fulfill the requirements for completing the block curriculum.</p> <p>The college also has an important evaluation program that shows the Teaching College members the progress achieved in students' education levels, called the Personal and Professional Development Program.</p>					
216. Learning and Teaching Resources					
Required textbooks (curricular books, if any)		Work book of Mental Health Care & Neurology			
Main references (sources)		<ul style="list-style-type: none"> • Davidson's Principles and Practice of Medicine (Stuart H. Ralston MD FRCP FMedSci FRSE FFPM(Hon)) • Macleod's Clinical Examination (Douglas, Nicol & Robertson) 			
Recommended books and references (scientific journals, reports...)		• Armstrong's Diagnostic Imaging (Armstrong P & Martin W & Anderea R)			
Electronic References, Websites		The Block website is on Google Classroom, which students are informed of at the beginning of each academic year and where they register using their official university emails.			

1. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements / Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Dr. Ali Mohammed Radhi	M.B.Ch.B.	Neurosurgery			Staff	
Dr. Zainab Abdul-Mehsin Abood	M.B.Ch.B.	Neurosurgery			Staff	
Dr. Abbas Jumaa Hamdan	M.B.Ch.B.	Psychiatry				Lecturer
Dr. Hiba Abdul Hussein Hussein	M.B.Ch.B.	Psychiatry				Lecturer
Dr. Mulook Chasib Kasim	M.B.Ch.B.	Neurosurgery				Lecturer
Dr. Hisham Ali Abdul Kareem	M.B.Ch.B.	Neurology				Lecturer
Dr. Muhanad Ahmed Abdulla	M.B.Ch.B.	Neurosurgery				Lecturer

8. Expected learning outcomes of the program	
A-Knowledge	
Learning Outcomes	<p>A1- Knowledge of the anatomical, histological and functional aspects of the parts of the nervous system</p> <p>A2-Knowledge of common psychological and neurological conditions, their symptoms, and the basic principles of diagnosis and treatment</p> <p>A3-Knowing the medical devices used in diagnosing complications affecting the nervous system, especially radiological ones, and how to use them in diagnosing pathological conditions.</p> <p>A4- General knowledge of the medical devices and tools used in psychological and neurological interventions.</p>

B–Skills	
Learning Outcomes	<p>B1 – Graduating safe and competent doctors by providing results–based medical education that enables medical students to acquire knowledge, skills and attitudes relevant to the health care system and responds to the health needs of society.</p> <p>B2 – Provide patient–centered care, emphasizing a compassionate approach by applying effective communication skills, humane and ethical principles in all aspects of medical practice</p> <p>B3 – Prepare the necessary infrastructure for a scientific environment that supports long–term problem–based learning, promotes innovative achievements, and encourages exchange and partnership programs.</p> <p>B4– The ability to deal with diseases of the nervous system and psychological diseases, especially critical ones</p> <p>B5– The ability to scientifically link the symptoms that appear on the nervous system and those that appear on other body systems to reach an accurate diagnosis of pathological conditions.</p> <p>B6– The possibility of conducting appropriate clinical, radiological and laboratory examinations for pathological conditions affecting the nervous system and psychological diseases to reach diagnosis and then treatment to obtain the best therapeutic results.</p>
C–Ethics	
Learning Outcomes	<p>C1– Graduating scientific doctors who put humanity as the basis for their work.</p> <p>C2– Graduating Doctors who know exactly how to deal psychologically and ethically with their patients.</p> <p>C3– Graduating Doctors who completely protect their patients’ secrets</p> <p>C4– Graduating Doctors who work as a team and do not refrain from cooperating with each other.</p>

Professional Development
Mentoring new faculty members
After reading and understanding the curriculum of the Block, the new faculty member given an overview on the integrative college system by the Dean assistant for scientific affairs, then he / she will attend lectures & clinical sessions of the Block followed by partial participation in the sessions, to complete giving lectures.
Professional development of faculty members
The faculty members are trained on Clinical Case–Based Learning strategy which learn & asses students at different levels of knowledge. This strategy will be developed using a much more sophisticated computers, voting systems and Smart Manikins (in Skill Lab.) that make a virtual environment for the clinical problems which assist the clinical training at hospitals and make learning process much more successful both to faculty members & students.