

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



**Academic Program
College of Medicine
University of Mosul**

Academic Program Description Form

University Name: University of Mosul

Faculty/Institute: College of Medicine.

Scientific Department: College of Medicine

Academic or Professional Program Name: Medicine and General Surgery

Final Certificate Name: Bachelor of Medicine and General Surgery (MBChB)

Academic System:

Description Preparation Date: 15/10/2025

File Completion Date: 20/11/2025

Signature:



Head of medical education Unit

Assist. Prof. Dr. Rana Muntaz Raaf

Date: 20/11/2025



Signature:



Vice Dean for Scientific Affairs

Lecturer Dr. Ahmed Abdullah Ahmed

Date : 20/11/2025

The file is checked by: Department of Quality Assurance and University Performance

Signature:

Director: Assist. Prof. Dr. Nuha Hajim

Date : 20/11/2025



Approval of the Dean

Prof. Dr. Humam Ghanim Ibraheem Zubair

Date:

1



20/11/2025.

1. Program Vision and mission

The vision of the College of Medicine is to be one of the leading medical colleges locally, regionally, and internationally by providing a high-quality medical and educational environment and an educational atmosphere that stimulates creativity, relying on competent faculty members to teach students, adopting a research program to produce and disseminate theoretical and applied knowledge and participating in promoting local and global health, and achieving this through:

1. Strengthening the spirit of belonging and pride among faculty members, employees, students, and graduates.
2. Preparing competent doctors with high professional ethics and possess the basic and clinical medical skills necessary to practice evidence-based medicine, ensuring quality performance according to international standards in various specialties and local and global health institutions.
3. Developing communication and scientific research skills among medical college students.
4. Excellence in research production and postgraduate studies program, updating it according to the local, regional, and global innovations, and harnessing it to serve the local community's health and achieve sustainable development goals in sustainable global health.
5. Documenting and consolidating local and international relations and providing services to the local community and health institutions to provide health for all.
6. The College of Medicine relies on the traditional approach to teaching while adopting modern methods in medical education to ensure the fulfillment of knowledge, application, and skill at their highest levels and to continue lifelong learning.
7. The College of Medicine strives to achieve the United Nations' Sustainable Development Goals (SDGs) by advancing health, ensuring quality education, and promoting environmental sustainability for the benefit of local and global communities
8. The College of Medicine seeks to achieve its mission by developing and updating curricula and academic programs and the best investment of its available human and material resources and harnessing them to serve the educational process and support teaching hospitals, activate community service programs, and develop the environment through awareness campaigns, conferences, scientific seminars and continuing medical education and concluding cooperation agreements with multiple parties to raise the medical and research efficiency of doctors and faculty members

The college of Medicine relies on the traditional curriculum in teaching and the students will graduate after passing the theoretical and practical exam to prove their competencies.

The College of Medicine accomplishes its mission by developing and updating the curriculum and the academic program and investing its available human and material resources in the educational and training process. It supports the educational hospitals, promotes community service programs, and develops the environment through awareness campaigns, conferences,

scientific seminars, continuous medical education and cooperation agreements with multiple entities to advance medical and research efficiency for the college's affiliates.

2. Program Objectives

The objectives of the program is to equip graduates with the following competencies:

1. **Demonstrate mastery** of the fundamental principles of basic and clinical medical sciences.
2. **Acquire and apply** the essential skills for performing life-saving interventions in common and emergency medical situations.
3. **Develop technical proficiency** for effective practice within diverse hospital and institutional healthcare settings.
4. **Communicate effectively** with patients, families, and healthcare teams across a variety of societal and cultural contexts.
5. **Uphold** the highest standards of professional ethics and moral responsibility in medical practice.
6. **Cultivate a commitment** to lifelong learning and continuous professional development.

3. Program Accreditation

The program is accredited by;

1. Accreditation and Quality Assurance Commission for Higher Education Institutions- AQACHEI/ Jordan (2024-2028)
2. The Nacional Council for Accreditation of Medical Colleges- NCAMC/ (Iraq)

4. Other external influences

Requirement of national and international accreditation agencies

5. Program Structure

Program Structure	Number of Courses	Credit units	Percentage	Notes*
Institution Requirements	6	12	4.6%	Required
College Requirements	40	251	95.4%	Required
College Requirements/ others	Required research project			

6. Program structure

Educational level	Course code	The name of the course	total hours (hr.)	Credits
The first year	MCBi101	Biochemistry	60 theoretical 60 Practical	6
The first year	MCPs102	Medical Physics	45 Theoretical 60 practical	5
The first year	MCAAn103	Anatomy	60 theoretical 120 practical	8
The first year	MCAAn104	Medical Biology and genetics	60 theoretical 60 practical	6
The first year	MCCo105	Foundations of medicine	30 theoretical	2

The first year	MCCu106	Computer	15 theoretical 30 practical	2
The first year	MCHr107	Human rights and democracy	30 theoretical	2
The first year	MCMt108	Medical Terminology	30 theoretical	2
The first year	MCAr109	Arabic Language	30 theoretical	2
The second year	MCPs201	Physiology	150 theoretical 90 practical	13
The second year	MCAAn202	Anatomy	60 theoretical 180 practical	10
The second year	MCBi203	Biochemistry	90 theoretical 60 practical	8
The second year	MCAAn204	Histology	45 theoretical 90 practical	6
The second year	MCAAn205	Embryology	30 theoretical	2
The second year	MCCo206	Medical Ethics	30 theoretical	2
The second year	MCBp207	Baath Party crimes	30 theoretical	2
The second year	MCCu208	Computer	15 theoretical 30 practical	2
The second year	MCAr209	Arabic Language	30 theoretical	2
The third year	MCPPh301	Pharmacology	90 theoretical 60 practical	8
The third year	MCMi302	Microbiology	90 theoretical 60 practical	8
The third year	MCMi303	Parasitology	60 theoretical 60 practical	6
The third year	MCPa304	Pathology	120 theoretical 120 practical	12
The third year	MCCo305	Community Medicine	30 theoretical 30 practical	3
The third year	MCMd306	Medicine	60 theoretical 60 practical	6
The third year	MCSu307	Surgery	30 theoretical	2
The Fourth year	MCPa401	Forensic Medicine	60 theoretical 60 practical	6
The Fourth year	MCMd402	Behavioural Sciences	30 theoretical	2
The Fourth year	MCCo403	Community Medicine	105 theoretical 120 practical	11
The Fourth year	MCOg404	Obstetrics	60 theoretical 90 practical	7
The Fourth year	MCMd405	Medicine	135 theoretical 90 practical	12

The Fourth year	MCSu406	Surgery	90 theoretical 90 practical	9
The Fourth year	MCPe407	Pediatrics	15 theoretical	1
The Fifth year	MCMd501	Medicine	75 theoretical 30 practical	6
The Fifth year	MCMd502	Psychiatry	45 theoretical 30 practical	4
The Fifth year	MCMd503	Dermatology	30 theoretical 30 practical	3
The Fifth year	MCSu504	Surgery	90 theoretical 60 practical	8
The Fifth year	MCSu505	Ophthalmology	30 theoretical 30 practical	3
The Fifth year	MCSu506	ENT	30 theoretical 30 practical	3
The Fifth year	MCPe507	Pediatrics	60 theoretical 60 practical	6
The Fifth year	MCOg508	Gynecology	60 theoretical 60 practical	6
The Fifth year	MCSu509	Radiology	30 theoretical 30 practical	3
The Fifth year	MCCo510	Family Medicine	15 theoretical 30 practical	2
The Sixth Year	MCMd601	Medicine	360 practical	12
The Sixth Year	MCSu602	Surgery	360 practical	12
The Sixth Year	MCOg603	Gyne and Obstetrics	300 practical	10
The Sixth Year	MCPe604	Pediatrics	300 practical	10
The Sixth Year	MCRP605	Research Project	Required	

7. Expected learning outcomes of the program (Graduate Competencies)

Within the health sector, graduates of the College of Medicine at the University of Mosul will work as professional doctors, scholars, scientists and leaders leading all efforts to provide and enhance high-quality medical services and to achieve the best possible health conditions for the community.

To achieve all these future roles and to be fully prepared for subsequent postgraduate training, CMUM graduates are required to have demonstrated competence in four major domains. For each domain, a set of outcomes are specified. Achieving these outcomes guarantee the student progress toward graduation.

CMUM Program Learning Outcomes are divided into 4 major domains: Knowledge for practice (KP), Patient care (PC), Communication Skills and professional behavior (CSP) and Ethical Behavior and team working skills (ETW). Details of the general outcomes for each domain are given below.

I. **Knowledge for practice (KP)**: Demonstrate knowledge of the already established and continuously evolving biomedical and clinical sciences which enables them to work and pursue a future career in any branch of medicine. In addition, demonstrates an efficient application of this knowledge to patient care. CMUM graduates will be able to:

KP1: Demonstrate and apply the knowledge related to anatomy, biochemistry, cell and biology, genetics, immunology, microbiology, nutrition, pathology, pharmacology and physiology.

KP2: Demonstrate and apply the knowledge and principles related to social and behavioral sciences (including psychology). This includes an assessment of the impact of psychosocial and cultural influences on health, disease, care-seeking, care compliance, and barriers to care delivery.

KP3: Demonstrate and apply the knowledge related to community health, improvement of health and healthcare.

KP4: Demonstrate and apply the knowledge related to the scientific and ethical basis of medical research in different disciplines.

KP5: Demonstrate and apply the knowledge of a range of alternative and complementary therapies. The reason why some patients use them, and how these might affect other types of treatment that patients receive.

KP6: Demonstrate and apply the knowledge related to the role that lifestyle, including diet and nutrition, can play in promoting health and preventing disease.

KP7: Demonstrate and apply the knowledge related to different global health challenges and use this knowledge to deliver care in both local and international contexts.

KP8: Demonstrate knowledge of the principles of the legal framework in which medicine is practiced in the jurisdiction in which they are practicing, and have awareness of where further information on relevant legislation can be found.

II. **Patient care (PC)**: Provide patient-centered care that is appropriate and effective for the treatment of health problems and the promotion of health. CMUM graduates will be able to:

PC1: Gather, document, and effectively present essential and accurate information about patients and their conditions through history-taking, physical examination and an assessment of mental state.

PC2: Interpret the findings from the history, the physical examination, and the mental-state examination to construct a preliminary differential diagnosis.

PC3: Decide on a range of investigations required. Interpret and effectively apply laboratory data, imaging studies, and other tests to reach a final diagnosis (PC3).

PC4: Formulate a plan for treatment, management and discharge according to the best evidence in partnership with patients, their families and other health professionals.

PC5: Perform certain essential medical, diagnostic, and surgical procedures.

PC6: Prescribe Medicines with efficacy and safety. Pay attention to special situations such as pregnancy, lactation and childhood.

PC7: Provide appropriate care in all medical contexts including recognizing the need for immediate care, diagnosing and managing acute medical emergencies, providing immediate life support and providing effective CPR.

PC8: Identify signs and symptoms of abuse or neglect and be able to safeguard children, young people, adults and older people, using appropriate systems for sharing information, recording and raising concerns, obtaining advice, making referrals and taking action.

PC9: Counsel and educate patients and their families to encourage them to participate in their care and enable shared decision-making.

III. **Communication Skills and professional behavior (CSP):** Demonstrate interprofessional and communication skills that result in the effective exchange of information and collaboration with patients, their families and other health professionals. CMUM graduates will be able to:

CSP1: Communicate clearly and effectively with patients and their relatives, colleagues from a variety of health and social care professions and at a community level with respect to the issues related to medical practice.

CSP2: Demonstrate sensitivity, honesty, and compassion in difficult conversations, including dealing with a violent patient or relative, end-of-life situations, adverse events, breaking bad news, disclosure of errors and other sensitive topics such as alcohol and drug abuse.

CSP3: Identify and overcome possible barriers to effective communication such as mental illness.

CSP4: Demonstrate compassion, integrity, and respect for others regardless of their lifestyle, culture, beliefs, race, color, gender, disability, age, or social or economic status.

CSP5: Recognize and respect the request for a second opinion and escalate concerns to senior colleagues where appropriate.

CSP6: Keep patient records up-to-date, legible and relevant to the safe progress of the patient.

IV. **Ethical Behavior and team working skills (ETW):** Demonstrate a commitment to ethical behavior and be able to effectively work within a team. CMUM graduates will be able to:

ETW1: Demonstrate a commitment to ethical principles during the medical practice such as Beneficence, Non-maleficence, Autonomy and Justice.

ETW2: Demonstrate respect for patient privacy and confidentiality. Respects the right of patients to refuse to participate as a patient for teaching or research purposes.

ETW3: Demonstrate effective team-working and leadership skills.

ETW4: Identify their own learning needs, continuously update their information based on published guidelines, demonstrate commitment to life-long learning and enthusiasm for postgraduate training.

8. Teaching and Learning Strategies

The college adopts various teaching and learning methods ranging from traditional to non-traditional approaches. These include:

- Theoretical Lectures: Held in auditoriums for teaching large groups.

- Practical Lessons: Conducted in laboratories of the academic branches of basic medical sciences.
- Clinical Lessons: Conducted in teaching hospitals or skills laboratories.
- Interactive Learning
- Self-Directed Learning
- Problem-Based/ Team-Based/ Case-Based Learning

9. Evaluation methods

Theoretical Exams: Conducted in the form of multiple-choice questions or essay questions.
 Practical/Clinical Exams: Objective structured clinical examinations for skills and behavior (OSCE + OSPE).

Formative Assessment:

Purpose: To assess the accumulated knowledge and skills of students.

Activities: Includes activities performed by the instructor to evaluate the student, such as short tests, discussion questions and debates during lectures, and assigning the student to conduct seminars related to the curriculum.

10. Faculty Members

Department of Obstetrics and gynecology

Academic Rank	Specialization		Special Requirements	Number of teaching staff	
	General	Special		Staff	instructor
Assistant professor	General medicine and general surgery	Obstetrics and gynecology	Nil	2	
lecturer	General medicine and general surgery	Obstetrics and gynecology	Nil	7	

Department of Pathology

Academic Rank	Specialization		Special Requirements	Number of teaching staff	
	General	Special		Staff	instructor
professor	General medicine and general surgery	Pathology/ histopathology	Nil	1	
professor	General medicine and general surgery	Pathology/ hematology	nil	1	
Assistant professor	General medicine and general surgery	Pathology/ histopathology	Nil	1	
lecturer	General medicine and general surgery	Pathology/ histopathology	Nil	9	
lecturer	General medicine and general surgery	Pathology/ medical genetics	Nil	1	
lecturer	General medicine and general surgery	Pathology/ hematology	Nil	2	

Assistant lecturer	Biology	Bacteriology	Nil	1	
Assistant lecturer	Biology	Zoology	Nil	1	
Department of surgery					
Academic rank	Specialization		Special Requirements	No. of teaching staff	
	General	Special		Staff	instructor
professor	General medicine and general surgery	ENT	Nil	3	
professor	General medicine and general surgery	Pediatric surgery	Nil		1
professor	General medicine and general surgery	Orthopedic surgery	Nil		1
Assistant professor	General medicine and general surgery	General surgery	Nil	2	
Assistant professor	General medicine and general surgery	Cardiothoracic surgery	Nil	1	
Assistant professor	General medicine and general surgery	Orthopedic surgery	Nil	1	
Assistant professor	General medicine and general surgery	Pediatric surgery	Nil	1	
Assistant professor	General medicine and general surgery	ophthalmology	Nil	1	
Assistant professor	General medicine and general surgery	Urology	Nil	3	
Assistant professor	General medicine and general surgery	Radiology	Nil	1	
lecturer	General medicine and general surgery	General surgery	Nil	4	
lecturer	General medicine and general surgery	Pediatric surgery	Nil	1	
lecturer	General medicine and general surgery	Plastic surgery	Nil	2	
lecturer	General medicine and general surgery	Neurosurgery	Nil	1	
lecturer	General medicine and general surgery	Emergency medicine	Nil	1	
lecturer	General medicine and general surgery	Anesthesia and intensive care	Nil	1	
lecturer	General medicine and general surgery	Ophthalmology	Nil	2	
lecturer	General medicine and general surgery	ENT	Nil	4	

lecturer	General medicine and general surgery	urology	Nil	1	
lecturer	General medicine and general surgery	Orthopedic surgery	Nil	2	
lecturer	General medicine and general surgery	Radiology	Nil	9	
Department of anatomy					
Academic rank	Specialization		Special requirement	No. of teaching staff	
	General	Special		Staff	instructor
Professor	General medicine and general surgery	Anatomy and histology	Nil	3	
Professor	Biology	parasitology	Nil	1	
Assistant professor	General medicine and general surgery	Anatomy and histology	Nil	4	
Assistant professor	General medicine and general surgery	Molecular medicine	Nil	1	
Assistant professor	Biology	parasitology	Nil	1	
Assistant professor	Biology	bacteriology	Nil	1	
Assistant professor	Biology	virology	Nil	1	
lecturer	General medicine and general surgery	Anatomy and histology	Nil	4	
lecturer	Biology	Zoology	Nil	1	
lecturer	Biology	bacteriology	Nil	1	
lecturer	Biology	biotechnology	Nil	1	
Assistant lecturer	Veterinary medicine	Anatomy and histology	Nil	7	
Assistant lecturer	Biology	bacteriology	Nil	1	
Assistant lecturer	Biology	Biology	Nil	1	
Department of microbiology					
Academic rank	Specialization		Special requirement	No. of teaching staff	
	General	Special		Staff	Instructor
Assistant professor	General medicine and general surgery	Immunology	Nil	1	
Assistant professor	Biology	Bacteriology	Nil	1	
lecturer	General medicine and general surgery	Immunology	Nil	4	

lecturer	General medicine and general surgery	Bacteriology	Nil	2	
lecturer	General medicine and general surgery	Parasitology	Nil	1	
Assistant lecturer	General medicine and general surgery	Immunology	Nil	2	
Assistant lecturer	General medicine and general surgery	Bacteriology	Nil	3	
Doctor	General medicine and general surgery	Bacteriology	MSc degree		2
Doctor	General medicine and general surgery	parasitology	MSc degree		1
Department of family and community medicine					
Academic rank	Specialization		Special requirement	No. of teaching staff	
	General	Special		Staff	Instructor
Assistant professor	General medicine and general surgery	family medicine	Nil	2	
Assistant professor	General medicine and general surgery	community medicine	Nil	5	
lecturer	General medicine and general surgery	community medicine	Nil	1	
lecturer	General medicine and general surgery	family medicine	Nil	1	
Assistant lecturer	mathematics	mathematics	Nil	1	
Assistant lecturer	mathematics	statistics	Nil	1	
Department of pediatrics					
Academic rank	Specialization		Special requirement	No. of teaching staff	
	General	Special		Staff	Instructor
professor	General medicine and general surgery	Pediatric cardiology	Nil	2	
Assistant professor	General medicine and general surgery	pediatrics	Nil	3	
lecturer	General medicine and general surgery	pediatrics	Nil	6	
Department of pharmacology					
Academic rank	Specialization		Special requirement	No. of teaching staff	
	General	Special		Staff	Instructor
professor	General medicine and general surgery	pharmacology	Nil	1	

Assistant professor	General medicine and general surgery	pharmacology	Nil	1	
Assistant professor	General medicine and general surgery	Pharmacology and therapeutics	Nil	1	
Assistant professor	Pharmaceutical Sciences	Pharmacology	Nil	1	
lecturer	General medicine and general surgery	Molecular Pharmacology	Nil	1	
lecturer	General medicine and general surgery	Laboratory Toxicology	Nil	1	
Department of biochemistry					
Academic rank	Specialization		Special requirement	No. of teaching staff	
	General	Special		Staff	General
Assistant professor	General medicine and general surgery	Clinical biochemistry	Nil	1	
Assistant professor	Chemistry	Organic chemistry	Nil	1	
lecturer	General medicine and general surgery	Clinical biochemistry	Nil	2	
lecturer	Chemistry	biochemistry	Nil	1	
lecturer	General medicine and general surgery		Nil	1	
lecturer	Veterinary medicine	Biochemistry	Nil	1	
Assistant lecturer	Chemistry	Inorganic chemistry	Nil	1	
Assistant lecturer	Chemistry	Analytic chemistry	Nil	1	
Assistant lecturer	Medical investigations	biochemistry	Nil	1	
Department of physiology					
Academic rank	Specialization		Special requirement	No. of teaching staff	
	General	Special		Staff	Instructor
Assistant professor	General medicine and general surgery	Medicine	Nil	1	
Assistant professor	General medicine and general surgery	Medical physiology	Nil	1	
lecturer	General medicine and general surgery	Medical physiology	Nil	4	
Assistant lecturer	General medicine and general surgery	Medical physiology	Nil	1	
Assistant lecturer	Physics	Physics	Nil	1	

Assistant lecturer	Engineering Technology of medical instruments	Engineering Technology of medical instruments	Nil	1	
Doctor	General medicine and general surgery	Medical physiology	MSc degree		1
Department of medicine					
Academic rank	Specialization		Special requirement	No. of teaching staff	
	General	Special		Staff	General
professor	General medicine and general surgery	Medicine	Nil		1
Assistant professor	General medicine and general surgery	Medicine	Nil	4	
Assistant professor	General medicine and general surgery	dermatology	Nil	2	
Assistant professor	General medicine and general surgery	Rheumatology	Nil	1	
Assistant professor	General medicine and general surgery	Neurology	Nil	1	
lecturer	General medicine and general surgery	gastroenterology	Nil	1	
lecturer	General medicine and general surgery	medicine	Nil	4	
lecturer	General medicine and general surgery	psychiatry	Nil	1	
lecturer	General medicine and general surgery	Neurology	Nil	3	
lecturer	General medicine and general surgery	Rheumatology	Nil	3	
lecturer	General medicine and general surgery	Dermatology	Nil	3	
lecturer	General medicine and general surgery	Radiology	Nil	3	
lecturer	General medicine and general surgery	Nephrology	Nil	1	
Supporting sciences unit					
Academic rank	Specialization		Special requirement	No. of teaching staff	
	General	Special		Staff	Instructor
Professor	Computer sciences	Artificial intelligence	Nil	1	
lecturer	Computer sciences	Artificial intelligence	Nil	1	

lecturer	Low	Low	Nil	1	
Assistant lecturer	Computer sciences	Computer sciences	Nil	3	
Assistant lecturer	English language	Speech analysis	Nil	1	

Professional Development

- Mentoring new faculty members
- Teaching methods courses and teaching validity testing
- Professional development of faculty members

The college has a staff developed policy (According to the college's [policy](#) for developing teaching staff CMUM-P-02-06)

11. Acceptance Criterion

Central admission for graduates of the Iraqi secondary schools which depends on achieving a certain score in the baccalaureate exam

12. The most important sources of information about the program

The College of Medicine website:
<https://uomosul.edu.iq/medicine>

13. Program Development Plan

Program improvement plans depend on the outputs of the reports of different measurement and evaluation committees. Annual reports are performed periodically to evaluate the program, and accordingly a follow-up plan is formulated and followed up by the Medical Education Unit. Several policies and procedures were developed to accomplish this improvement such as:

1. [Curriculum development policy](#)
2. [Program evaluation and development procedure](#)
3. [Procedure for updating/deleting/ adding an academic course](#)

Expected Learning Outcomes of the Program

Level	Course Code	Course Name	Basic/optional	Program Competencies																									
				Knowledge for practice (KP)							Patient Care (PC)									Communication Skills and professional behavior (CSP)				Ethical Behavior and team working skills (ETW):					
				KP1	KP2	KP3	KP4	KP5	KP6	KP7	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	CSP1	CSP2	CSP3	CSP4	CSP5	CSP6	ETW1	ETW2	ETW3	ETW4
Second	McAn202	Anatomy	Basic	√			√				√								√						√			√	
Second	McAn204	Histology	Basic	√			√				√								√						√			√	
Second	McAn205	Embryology	Basic	√			√				√								√						√			√	
Second	McBi203	Biochemistry	Basic	√			√				√											√				√	√	√	

Expected Learning Outcomes of the Program

Level	Course Code	Course Name	Basic/optional	Program Competencies																											
				Knowledge for practice (KP)							Patient Care (PC)									Communication Skills and professional behavior (CSP)						Ethical Behavior and team working skills (ETW):					
				KP1	KP2	KP3	KP4	KP5	KP6	KP7	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	CSP1	CSP2	CSP3	CSP4	CSP5	CSP6	ETW1	ETW2	ETW3	ETW4		
Third	McPh301	Pharmacology	Basic	√	√	√	√	√	√				√		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		
Third	MCCO305	Community Medicine	Basic	√	√	√	√	√	√	√	√							√	√	√	√				√	√	√	√			
Third	MCMD306	Medicine	Basic	√	√	√	√	√	√	√	√	√	√		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
Third	McPa304	Pathology	Basic	√			√			√			√							√							√		√		

Expected Learning Outcomes of the Program

Level	Course Code	Course Name	Basic/optional	Program Competencies																									
				Knowledge for practice (KP)							Patient Care (PC)									Communication Skills and professional behavior (CSP)						Ethical Behavior and team working skills (ETW):			
				KP1	KP2	KP3	KP4	KP5	KP6	KP7	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	CSP1	CSP2	CSP3	CSP4	CSP5	CSP6	ETW1	ETW2	ETW3	ETW4
Fifth	MCPe507	Pediatrics	Basic	√		√		√	√	√	√	√	√	√	√	√	√	√	√			√	√	√	√				
Fifth	MCRa509	Radiology	Basic	√			√	√		√	√	√			√											√			
Fifth	MCOg508	Gynecology	Basic	√	√	√				√	√	√	√				√	√	√	√			√	√		√			
Fifth	MCMD501	Medicine	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	

Expected Learning Outcomes of the Program

Level	Course Code	Course Name	Basic/optional	Program Competencies																											
				Knowledge for practice (KP)							Patient Care (PC)									Communication Skills and professional behavior (CSP)						Ethical Behavior and team working skills (ETW):					
				KP1	KP2	KP3	KP4	KP5	KP6	KP7	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	CSP1	CSP2	CSP3	CSP4	CSP5	CSP6	ETW1	ETW2	ETW3	ETW4		
Fifth	MCSU505	Ophthalmology	Basic	√		√	√	√	√	√	√	√	√	√	√	√	√	√			√				√	√	√	√			
Fifth	Mcsu504	Surgery	Basic	√		√	√	√	√	√	√	√	√	√	√	√	√	√	√			√				√	√	√	√		
Sixth	MCMD601	Medicine	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
Sixth	MCPe604	Pediatrics	Basic	√		√		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		

Course Description Form

University of Mosul

College of Medicine

Department of Biochemistry

1. Course Name:	
Medical Chemistry	
2. Course Code:	
MCBi 101	
3. Semester / Year:	
First and Second / 2025-2026	
4. Description Preparation Date:	
7/10/2025	
5. Available Attendance Forms:	
Register attendance in person	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Practical hours= 60, Theoretical hours= 60 (Total credit hours = 120) Total units = 6	
7. Course administrator's name (mention all, if more than one name)	
Assist.prof. Dr.Omar Mohammad	omermohammed@uomosul.edu.iq
Lecturer. Maher Abdulsattar Ibrahim	maibraim68@uomosul.edu.iq
Assist. Lecturer. Shaimaa Muyasser	Shaymaa.nayf@uomosul.edu.iq
Assist. Lecturer. Entesar Ahmed	entesar.ahmed@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The aim of the course is scientific building of knowledge, employing the ability and refining the skill in order to assimilate the scientific foundations in the topics of organic, inorganic and analytical chemistry and the foundations and priorities of biochemistry for the purpose of learning, understanding and comprehending the chemical reactions that occur inside the human body, both natural and pathological, and for later understanding the mechanism of diseases and their causes through the study of biochemistry and clinical Details, resulting from imbalances in natural chemical reactions and the means to repair them within the human body: By the end of this course the student will be able to:</p> <p>Knowledge:</p> <p>K1. Describe the structure, properties, and reactivity of organic molecules by identifying functional groups and explaining their role in reaction mechanisms (KP1)</p> <p>K2. Select and justify appropriate analytical techniques to qualitatively identify and quantitatively measure chemical substances in a given sample (KP1)</p> <p>K3. Classify inorganic compounds and correlate their structures and bonding (e.g., crystal field theory) with their observed properties and reactivity. (KP1)</p> <p>K4. Explain how the structure of fundamental biomolecules (proteins, nucleic acids, etc.) determines their function in metabolic pathways and cellular processes (KP1)</p> <p>Skill :</p> <p>S1. Design how and the possibility of synthesizing a number of organic substances from their primary resources inside or outside the body (PC1)</p> <p>S2. Manage the analyzing and measuring of number of basic materials inside the body and analyzing different models (PC1)</p>

S3. use of materials and equipment and the necessities that support them in verification, measurement and evaluation (PC1) Attitude: A1. the student will be able to recognize any ethical problems in relation to the topics and act accordingly (CSP1). A2. the student will acknowledge the importance of wearing gloves and mask in chemical lab.(ETW2). A3 And the effective team-working and leadership skills. (ETW3)

9. Teaching and Learning Strategies

Strategy	1- theoretical lectures 2- practical labs
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10. Course Structure

Week	Hours	Required Learning Outcomes	Subject name	Learning method	Evaluation method
1-10	40	1. Name and draw the structures of fundamental organic compounds (alkanes, alkenes, alkynes, aromatics, and key functional groups) using IUPAC nomenclature. 2. Identify and classify the common functional groups in organic molecules (e.g., alcohols, carbonyls, amines, carboxylic acids). 3. Recognize and explain different types of isomerism (constitutional, stereoisomerism, including enantiomers and diastereomers). 4. Safely perform fundamental laboratory techniques (e.g., purification, separation, characterization) to synthesize and analyze organic compounds.	organic chemistry and safety lab	Theoretical lectures And practical lab	Med exam Final exam Unknown exam
11-14	16	1. Define carbohydrates and recognize their basic empirical formula. 2. Classify carbohydrates based on molecular size and complexity into monosaccharaides, disaccharides,	Carbohydrates	Theoretical lectures And practical lab	Med exam Final exam Unknown exam

		<p>oligosaccharides, and polysaccharides.</p> <p>3. Classify monosaccharides based on carbonyl group (aldose vs. ketose) and number of carbon atoms (e.g., triose, pentose, and hexose).</p> <p>4. Differentiate between the linear and cyclic forms (furanose and pyranose) of monosaccharides.</p> <p>5. Explain the formation of a glycosidic bond and recognize it in the structures of disaccharides and polysaccharides.</p>			
15-17	10	<p>1. Define lipids and list their major biological roles (e.g., energy storage, structural components, Signaling).</p> <p>2. Classify the major types of lipids based on their chemical Structure.</p> <p>3. Differentiate between fatty acids and predict their effect on membrane fluidity.</p> <p>4. Describe the structure of Cholesterol and its role in membrane fluidity and as a precursor for Steroid hormones.</p> <p>5. Explain the chemical basis of lipid hydrolysis</p>	Lipid	Theoretical lectures And practical lab	Med exam Final exam Unknown exam
18-22	20	<p>1. Recognize the general structure of an amino acid, identifying the alpha carbon, amino group, carboxyl group, and R group (side chain).</p> <p>2. Classify the standard amino acids based on the chemical properties of their side chains (e.g., nonpolar, polar, acidic, basic).</p> <p>3. Predict the ionic state of an amino acid and calculate</p>	Amino acid and protein	Theoretical lectures And practical lab	Med exam Final exam Unknown exam

		<p>its isoelectric point (pI) at different pH values.</p> <p>4. Describe and differentiate between the four levels of protein organization: primary, secondary (alpha-helices, beta-sheets), tertiary, and quaternary structures.</p> <p>5. Explain the concept of protein denaturation, including its causes (e.g., heat, pH changes) and its consequences on structure and function.</p>			
23-28	26	<p>1. Differentiate between qualitative and quantitative analysis and describe the key steps in a general analytical process.</p> <p>2. Explain the principles and applications of key separation techniques such as chromatography (e.g., HPLC, GC).</p> <p>3. Interpret analytical data from various sources to draw valid conclusions about the identity, purity, and concentration of analytes.</p> <p>4. Describe the different types of chemical bonding (ionic, covalent, metallic) and their effect on physical properties.</p>	Analytical chemistry and inorganic chemistry	Theoretical lectures And practical lab	Med exam Final exam Unknown exam
29-30	8	<p>1. Define enzymes as biological catalysts and explain their key characteristics, including high efficiency and specificity.</p> <p>2. classify enzymes into the six major classes based on the type of reaction they catalyze.</p> <p>3. Explain the concept of enzyme-substrate</p>	Enzymes	Theoretical lectures And practical lab	Med exam Final exam Unknown exam

	<p>interaction using models such as the lock-and-key and induced-fit theories.</p> <p>4. Define the active site and describe how enzymes lower the activation energy of a reaction.</p> <p>5. Differentiate between competitive, non-competitive, and uncompetitive inhibition based on their effects on kinetic parameters.</p>			
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11. Course Evaluation

Practical 30%

Theoretical 70%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Textbooks for medical chemistry Chemical basis of life George H Schmidt
Main references (sources)	Lippincott textbooks
Recommended books and references (scientific journals, reports...)	Principle of biochemistry David L. Nelson Michael M Co
Electronic References, Websites	

Course Description Form

University of Mosul

College of Medicine

Department of Medical Physiology

1. Course Name:	
Medical physics	
2. Course Code:	
MCPs102	
3. Semester / Year:	
First and Second /2025-2026	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Register attendance in person	
6. Number of Units (Total)	
Total credit hours = 105. Practical hours=60 (2 units)/ Theoretical hours= 45 (3 units) Total Units (5 Units)	
7. Course administrator's name	
Assist. Lect. Huda Daham Badr	huda.badr@uomosul.edu.iq
Assist. Lect. Yahya Salem Alhalema	yahya_ahmed@uomosul.edu.iq
Assist. Lect. Raghda Tareq Abdulateef	raghda.tarig@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The primary goal of this course is to provide students with depth understanding of the physical functions of human body systems, explore principles of medical devices, including X-ray and MRI, learn radiotherapy techniques and related applications, including radiation safety. In addition to understanding biomaterials and their use in medical devices, Develop practical skills and applied knowledge for medical practice. By the end of this course, students will be able to:</p> <p><u>Knowledge (K)</u></p> <p>K1: Differentiate the basic principles of physics applied to medical imaging, radiotherapy, and other diagnostic tools. (KP1)</p> <p>K2: Apply knowledge of diagnostic and therapeutic medical devices, including biomaterials used in medical equipment. (KP2, PC3)</p> <p>K3: Describe the mechanisms of major medical imaging techniques (e.g., X-ray, CT, MRI, Ultrasound, Nuclear Medicine) and radiotherapy technologies. (KP1, PC3)</p> <p>K4: Integrate medical physics knowledge with clinical applications, including patient safety, dose calculation, treatment planning, and understanding radiation risks. (KP1, PC4, PC7)</p> <p><u>Skills (S):</u></p> <p>S1: Recall and explain core concepts of medical physics necessary for understanding imaging systems, radiotherapy, and radiation safety. (KP1, PC3)</p>

	<p>S2: Apply critical thinking and problem-solving skills in clinical and experimental scenarios, including data analysis and experiment design. (KP4, CSP3, ETW4)</p> <p>S3: Develop practical skills in operating medical physics equipment and safely handling radiation sources and biomaterials. (PC5, PC7, ETW3)</p> <p>S4: Communicate scientific results clearly through organized oral presentations and written reports. (CSP1, CSP4, ETW3)</p> <p>Attitude (A)</p> <p>A1: Actively participate in learning through interaction with lecturers and peers during discussions and laboratory sessions. (ETW3, ETW4)</p> <p>A2: Work effectively in a team, demonstrating collaboration and leadership skills during practical and group activities. (ETW3, CSP3)</p> <p>A3: Respect and appreciate the importance of accurate measurements in medical physics, and maintain all equipment and biomaterials safely and responsibly. (ETW1, ETW2, PC6)</p> <p>A4: Communicate clearly and effectively with colleagues, healthcare professionals, and members of the interprofessional team to ensure patient care and safety. (CSP1, CSP4, PC4)</p> <p>A5: Adhere to radiation safety procedures and understand radiation-related risks to prevent harm to patients and healthcare workers. (PC7, ETW1)</p>
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9. Teaching and Learning Strategies

Strategies	<ol style="list-style-type: none"> 1. Theoretical lectures: 2 lectures per week covering core concepts in medical physics, imaging systems, radiotherapy, radiation safety, and biomaterials. 2. Practical laboratory sessions: 2 hours per week. Students are divided into small groups of 8–10 to perform simple physics experiments such as lenses, mirrors, speed of sound, viscosity, and other basic medical physics applications. Safety protocols are followed. 3. Analyzing experimental results: Students review and interpret data from laboratory exercises. 4. Discussion and comparison: Students discuss outcomes and compare them with theoretical or expected values.
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10. Course Structure

Week	Hours	Subject Name	Main Learning Outcome	Learning method	Evaluation method
1	4	Introduction to medical physics	Introduction to medical physics	Theoretical lectures And practical lab	- written test - practical test
2	4	Biomaterials in Medicine	Understand the applications of biomaterials	Theoretical lectures and practical lab	- written test - practical test
3-4	8	Force on and in the body	Force on and in the body	Theoretical lectures and practical lab	- written test - practical test
5-7	12	Basic physics of the cardiovascular system	Basic physics of the cardiovascular system	Theoretical lectures and practical lab	- written test - practical test

8-9	8	Electricity within the body	Electricity within the body	Theoretical lectures and practical lab	- written test - practical test
10-11	8	Heat and cold in medicine	Heat and cold in medicine	Theoretical lectures	- written test - practical test
12-14	12	Basic physics of lung and breathing	Basic physics of lung and breathing	Theoretical lectures and practical lab	- written test - practical test
15	4	Eyes and vision	Eyes and vision	Theoretical lectures and practical lab	- written test - practical test
16	3	Pressure	Pressure	Theoretical lectures	- written test - practical test
17-18	6	Sound in medicine	Sound in medicine	Theoretical lectures And practical lab	- written test - practical test
19-20	6	Physics of diagnostic x rays	Physics of diagnostic x rays	Theoretical lectures and practical lab	- - written test - practical test
21-22	6	Types of rays	Types of rays	Theoretical lectures and practical lab	- written test - practical test
23-24	6	Radioactive pollution	Radioactive pollution	Theoretical lectures and practical lab	- written test - practical test
25-26	6	x-ray	x-ray	Theoretical lectures and practical lab	- written test - practical test
27-28	6	Micro wave spectra	Micro wave spectra	Theoretical lectures and practical lab	- written test - practical test
29-30	6	Physics of nuclear medicine.	Physics of nuclear medicine.	Theoretical lectures and practical lab	- written test - practical test

11. Course Evaluation

1. Mid-year Exam (practical exam: **10%**, theoretical exam: **30%**)
2. Quiz and student activities **5%**
3. Final Exam: (practical exam: **10%**, theoretical exam: **45%**)

12. Learning and Teaching Resources

Required textbooks (curricular books)	Medical physics - Cameron
Main references (sources)	Medical physics – Cameron Medical Physics for Medical Students
Recommended books and references (scientific journals, reports...)	Medical Biophysics
Internet sources, Websites	Discussion questions are solved at the end of each practical experience using Internet sites by student

Course Description Form

University of Mosul

College of Medicine

Department of Anatomy

1. Course Name:	
Anatomy	
2. Course Code:	
MCAN103	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total credit hours = 180 (Theoretical hours: 60 hrs./Practical hours: 120 hrs.) Total Units: 8	
7. Course administrator's name (mention all, if more than one name)	
Assist. Prof. Dr. Omar Rhiadh	omarrh@uomosul.edu.iq
Assist. Prof. Dr. Rana Mumtaz	rmr@uomosul.edu.iq
Assist. Prof. Dr. Muna Zuhair	mza@uomosul.edu.iq
Assist. Prof. Rund Abdulateef	rundabdulateef@uomosul.edu.iq
Lecturer Dr. Saddam Abdulhusain	saddamah@uomosul.edu.iq
Lecture Dr. Ashraf Al-Samadi	ashrafabdulraheem@uomosul.edu.iq
Lecture Harith Ali Hassan	harith.hasan@uomosul.edu.iq
Assist. Lecturer Sura Atallah Mahmood	Sura.atallah@uomosul.edu.iq
Assist. lecturer Mustafa M. Hadi	Mustafa.mohammed@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The primary goal of this course is to provide students with foundational knowledge of the normal anatomical structures of the upper limb, thorax, and lower limb and to integrate this knowledge with clinical sciences. This integration is crucial for applying anatomical facts to patient examination and understanding clinical conditions. By the end of this course the students will be able to:</p> <p>Knowledge:</p> <p>K1: Demonstrate and apply knowledge related to the fundamental principles of anatomy (e.g., terminology, tissue types, structural organization). (KP1).</p> <p>K2: Describe in detail the specific anatomy of the upper limb, lower limb, and thorax (including bones, muscles, nerves, blood vessels, and organs). (KP1).</p> <p>K3: Integrate anatomical knowledge with clinical practice. This includes Performing a proper physical examination of a patient and understanding the clinical signs and symptoms that appear when specific nerves in the limbs are injured (KP1).</p> <p>Skills</p> <p>S1: Locate the anatomical structures in the upper limb, lower limb and thorax in a 3D model (PC1).</p> <p>S2: Identify and point out normal anatomical structures on standard X-ray images. (PC1).</p>

	<p>S3: Relate the surface markings of different structures and determine the position or course of internal structures (PC1).</p> <p>Attitude</p> <p>A1: Participant actively in learning by engaging in discussions with both the lecturer and fellow students. (CSP1).</p> <p>A2: respect colleagues and behave according to ethical standards when working with plastinated cadaveric specimens, acknowledging their importance in learning and the dignity of the human body. (ETW1).</p> <p>A3: Work effectively in a team, demonstrating both collaboration and leadership skills during group activities or practical sessions. (ETW3).</p>
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • large group teaching: (theoretical lectures) 2 lectures / week • Practical laboratory sessions: The students are divided into small groups each of 10-15 students. Plastinated cadavers, skeletons, bone and organ specimens will be available for students. X-ray imaging films will be available to learn different bony landmarks • Team-based learning sessions.
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-4	24	<ol style="list-style-type: none"> 1. Define anatomical terms, positions, movements. 2. Discuss the basic anatomy of different systems in the body 3. Define the serous membranes in the body with their different types 4. Discuss the types of bones and types of joints in the body 	introduction	Lectures + Practical labs	Short assay OR MCQs + Practical spot exam
5-13	54	<ol style="list-style-type: none"> 1. Describe the surface markings of the upper limb 2. Discuss the bony landmarks of the bones of the upper limb 3. List the muscles of the upper limb and their main action and nerve supply 4. Discuss different areas in the upper limb with their clinical significance such as the axilla, the cubital fossa, the snuff box, the carpal tunnel 5. Describe the components of the joints of the upper limb and the main factors affecting their stability 	Anatomy of the upper limb	Lectures + Practical labs	Short assay OR MCQs + Practical spot exam

		6. Discuss blood and nerve supply of the upper limb and correlate it to clinical conditions			
14 - 21	48	<ol style="list-style-type: none"> Describe the principal distinguishing features of bones of the thoracic cage List the muscles of the thoracic wall and their main action and nerve supply. List the contents of intercostal space. Discuss the anatomy of the lung and the pleura. Describe the components of the mediastinum. Describe the anatomy of the heart and its blood supply. 	Anatomy of the thorax	Lectures + Practical labs	Short assay OR MCQs + Practical spot exam
22 - 30	54	<ol style="list-style-type: none"> Describe the principal distinguishing features of bones of the lower limb List the muscles of the lower limb and their main action and nerve supply. Discuss the nerves and blood vessels of the lower limb and correlate it to clinical conditions Discuss different areas in the lower limb and their significance such as the femoral triangle, the popliteal fossa, the tarsal tunnel. Describe the components of the joints of the lower limb and their stability. 	Anatomy of the lower limb	Lectures + Practical labs	Short assay OR MCQs + Practical spot exam

11. Course Evaluation

- 20% mid-year theoretical examination
- 10% mid-year practical examination
- 70% final year examination (theoretical 50%, and practical 20%)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ol style="list-style-type: none"> Grants Atlas of Anatomy Snell's Clinical Anatomy by Regions
Main references (sources)	<ul style="list-style-type: none"> -Gray's Anatomy for student's 4th edition -Moore's clinically oriented anatomy 9th edition
Recommended books and references (scientific journals, reports...)	Netter Atlas of Human Anatomy, 7 th edition.
Electronic References, Websites	Google classroom platform

Course Description Form

University of Mosul

College of Medicine

Department of Anatomy

1. Course Name:	
Medical Biology	
2. Course Code:	
McAn104	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total credit hours = 120 (Theoretical hours: 60 hrs./Practical hours: 60 hrs.) Total Units: 6	
7. Course administrator's name (mention all, if more than one name)	
Prof. Buthaina H. Al-Sabawi	buthainahh@uomosul.edu.iq
Assist. Prof. Wahda A. Kharofa	wam@uomosul.edu.iq
Assist. Prof. Ramzya Hassan	rha@uomosul.edu.iq
Assist. Prof. Kawkab Idress	kawkabidress@suomosul.edu.iq
Lecturer: Inaam A. Aljalili	inaamaljalili@uomosul.edu.iq
Assist.Lecturer: Shaimaa F. Yonis	shaimaafy@uomosul.edu.iq
Assist.Lecturer: Alyaa Ali Saffo	alyaa-saffo@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The main objective of this course is to provide students with the basic knowledge to understand the cell as a fundamental component of life, understand the process of cell division and cell differentiation, and learn the mechanisms associated with cell death and tumorigenesis.</p> <p>Knowledge:</p> <p>K1. Understand the nature of medical biology and its importance in the healthcare field, understand the molecular structure of the cell, be familiar with the general structure of the animal cell, as well as the basics of genetic engineering and its medical uses (KP1).</p> <p>K2. Understand the relationship between cellular, genetic, and tissue structures and diseases (KP1).</p> <p>K3. Gain a scientific foundation that will aid in subsequent studies, such as pathology and microbiology (KP4).</p> <p>Skills:</p> <p>S1. The ability to distinguish cell structures under a microscope or through microscopic drawings (PC3).</p> <p>S2. Establish a scientific basis for understanding genetic diseases and modern techniques such as PCR (PC3).</p> <p>S3. Microscopic identification of tissue types and linking tissue structures to their physiological functions (PC3).</p>

	<p>Attitude:</p> <p>A1: Participate actively in the learning process by engaging in discussions with the lecturer and classmates (CSP1).</p> <p>A2: Respect colleagues and adhere to ethical standards (ETW3).</p> <p>A3: Work effectively within a team, demonstrating both collaboration and leadership skills during group activities or practical sessions (ETW1).</p>
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • Large group teaching (theoretical lectures): Two lectures per week. • Practical laboratory sessions: Students are divided into small groups. Samples are prepared slides of various cell and tissue types. • Team-based learning sessions.
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-15	30	<ol style="list-style-type: none"> 1. Identify the chemical composition of the cell and the functions of its various components. 2. Understand the cell cycle, cell division (mitosis and meiosis), cell development, and differentiation. 3. Learn the mechanisms associated with cell death and tumor development. 4. Principles of biosafety and security 	Cell Biology	Lectures + Practical labs	Short assay OR MCQs + Practical exam
16-20	10	<ol style="list-style-type: none"> 1. Understand the principles of classical and molecular genetics. 2. Learn about human genetics and different blood systems. 3. Study mutations and genetic disorders. 4. Learn about genetic engineering and its medical applications. 	Genetics	Lectures + Practical labs	Short assay OR MCQs + Practical exam
21-30	20	<ol style="list-style-type: none"> 1. Identify the different types of tissues and their functions. 2. Understand the characteristics of each tissue and its role in the body. 3. Study the growth and development of different tissues. 	Histology	Lectures + Practical labs	Short assay OR MCQs + Practical exam

11. Course Evaluation

25% mid-year theoretical exam.

10% mid-year practical exam.

65% end-of-year exam: divided into 55% theoretical and 10% practical

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Biology (18th edition) 2010. Sylvia S. Mader
Main references (sources)	Concepts of biology. 2013. Samantha Flowr et. Al
Recommended books and references (scientific journals, reports...)	diFiore's Atlas of Histology with Functional Correlations 11th ed. (2008) Victor p. Eroschenko
Electronic References, Websites	Google classroom platform

Course Description Form

University of Mosul

College of Medicine

Department of Medicine

1. Course Name:					
Foundation of Medicine					
2. Course Code:					
MCMd105					
3. Semester / Year:					
Second/ 2025-2026					
4. Description Preparation Date:					
11/9/2025					
5. Available Attendance Forms:					
Register attendance in person					
6. Number of Units (Total)					
1 credits / 15 hours					
7. Course administrator's name					
Name: Qasim S. Al Chalabi Email: Qasimalchalabi@uomosul.edu.iq					
8. Course Objectives					
Course Objectives	<p>The course aims to teach the foundation of medicine to students of the first stage in the Faculty of Medicine in its theoretical aspects, where the student is familiar with the science of medical terminology concerning the building of medical terms and how to analyze the medical terms and decode them. Also, the course helps the students to understand the principles of community medicine, the distribution of diseases, the uses of medical herbs, and important WHO definitions.</p> <p>Knowledge outcomes: by the end of this course the students will</p> <p>K1. understand medical terminology and benefit from it in the field of his clinical work (KP1)</p> <p>K2. understand the principles of community medicine and benefit from it in the field of his clinical work (KP1).</p> <p>K3. know the WHO objectives (KP1)</p>				
9. Teaching and Learning Strategies					
Strategy					
<ol style="list-style-type: none"> 1. Theoretical lectures 2. focus discussions: The students are divided into small groups each of 10-15 students 3. Seminars and presentations 					
10. Course Structure					
Week	Hours	Subject Name	Main Learning Outcome	Learning method	Evaluation method
1-15	15	Principle of Community Medicine	Principle of community medicine	Theoretical lectures	Short essay S.B.A

11. Course Evaluation

Mid term exam	30%
Final exam	70%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Introduction to Medical Terminology by Linda Stanhope, Kimberly Turnbull. 2. Principles and Practice of Community Medicine 2nd ed. Edition by Asma Rahim (Author)
Main references (sources)	Principles Of Community Medicine Paperback by Dr.B.Sridhar Rao (Author)
Recommended books and references (scientific journals, reports...)	Nil
Electronic References, Websites	https://nursecepts.com/medical-terminology-basics/

Course Description Form

University of Mosul

College of Medicine

Supporting Science Unit

1. Course Name:	
Computer science	
2. Course Code:	
MCCU106	
3. Semester / Year:	
First/ 2025 – 2026	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15 theoretical hours + 30 practical hours during the first semester / Number of units = (2)	
7. Course administrator's name (mention all, if more than one name)	
Professor Rukaya Zedan	rzs@uomosul.edu.iq
Lecturer: Dr.Dhafar fak Allayla	dhf@uomosul.edu.iq
Assistant lecturer: Maha abdulhadi alani	maa@uomosul.edu.iq
Assistant Lecturer: Huda saad taher	huda.thher@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>This course aims to provide first-year medical students with essential knowledge and skills in using computers and modern applications to support their studies, research, and academic communication.</p> <p>The course covers computer concepts and operating systems, using Microsoft Office applications to prepare reports, presentations, discussions, graduation research, tables, statistics, and charts, as well as effective Internet use via search engines, browsers, and email. It also includes an introduction to cloud computing and the use of e-learning platforms for academic communication and task management.</p> <p>By the end of the course, students will be able to</p> <p>Knowledge:</p> <p>K1. Recognize the basic components of a computer, their functions, common terminology, and operating systems, and understand how to use them effectively for intended purposes(KP4).</p> <p>K2. Explain the use of ready-made applications for document creation, spreadsheets, statistics, charts, and presentations using Microsoft Office (Word, Excel, PowerPoint) (KP4).</p> <p>K3. Explain Internet and browser concepts, email services, cloud computing principles, and study remotely via educational platforms approved by the institution, communicating with instructors, accessing lectures and assignments, submitting solutions, and completing quizzes and tests (KP3, KP4).</p> <p>Skills:</p>

	<p>S1. Use Microsoft Office applications effectively to write reports, create tables, and prepare presentations (PC1, PC9).</p> <p>S2. Apply online research techniques, email communication, and electronic interaction professionally and securely (PC4, PC9).</p> <p>Attitudes:</p> <p>A1. Commit to ethical use of technology, respect intellectual property and ensure data security (ETW1,ETW2).</p> <p>A2. Demonstrate a willingness for continuous learning and adopt modern technologies to support the medical profession and scientific research (ETW4)</p>
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • Theoretical lectures • Laboratory practice and hands-on computer use for exercises and assignments with discussion • Demonstrative videos
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1	1	Concepts of hardware and software computing concept; data and information; connecting input/output devices and peripherals to the CPU.	Introduction to Computer	Theoretical and practical lecture	Short essay OR MCQs
2-3	2	Computer parts, hardware components, input/output units, memory types; main CPU components; computer ports; personal computers, types and features.	Computer Components	Theoretical and practical lecture	Short essay OR MCQs
4-5	2	Operating system concept; basics of common operating systems; GUI, using mouse, common icons, status bar, menus, folders and directories, opening/closing windows, creating shortcuts.	Operating System and Graphical Interface (GUI)	Theoretical and practical lecture	Short essay or MCQs or exercises
6-7	2	Introduction to word processing; basic features, opening/closing documents, creating/editing texts, formatting text and paragraphs, using templates; creating/managing tables, using styles and themes, spell/grammar check, headers and footers.	Word Processing	Theoretical and practical lecture	Short essay or MCQs or exercises
8-9	2	Introduction to spreadsheets; creating/formatting worksheets, sorting/filtering data, using formulas/functions; pivot tables, data validation, error checking, visual data presentation via charts/graphs.	Spreadsheet	Theoretical and practical lecture	Short essay or MCQs or exercises

10-11	2	Introduction to presentation software; overview of tools, creating new presentations, templates/themes, inserting/formatting text/images, transitions and animations, slide notes/timers, advanced features like hyperlinks/action buttons, troubleshooting, future trends.	Presentation Software	Theoretical and practical lecture	Short essay or MCQs or exercises
12-13	2	Basics of computer networks: LAN, WAN; Internet concept and applications, Internet connection; World Wide Web, web browsers, search engines, understanding URLs, domain names, and IP addresses.	Introduction to Internet and Web Browsers	Theoretical and practical lecture	Short essay or MCQs or exercises
14	1	Email basics; creating an email account, sending/receiving messages, accessing sent messages, using email for document collaboration.	Communication and Emails	Theoretical and practical lecture	Short essay or MCQs or exercises
15	1	Cloud computing concept; cloud office suites (Office 365, Google Workspace); using Google tools (Docs, Sheets, Drive, Meet).	Introduction to Cloud Computing and Services	Theoretical and practical lecture	Short essay or MCQs or exercises

11. Course Evaluation

- 10% Practical Exam
- 20% Midterm Exam (Theory) – total effort: 30%
- 70% Final Exam (Theory)

Total: 100 points

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Title: "Computer and Ready-made Software: Essential Skills" <ul style="list-style-type: none"> • Computer Skills • Windows 10 (HARDWARE & SOFTWARE) Authors: Prof. Dr. Mohamed Bilal Al-Zoubi / Prof. Dr. Ahmed Al-Sharae'ah / Suhair Abdullah / Khalida Mohamed Al-Zoubi Publisher: University of Jordan / Dar Wael Publishing and Distribution, Amman, Jordan
Main references (sources)	<ol style="list-style-type: none"> 1. Graham Brown, David Watson, <i>Cambridge IJCE Information and Communication Technology</i>, 3rd Edition (2020) 2. Alan Evans, Kendall Martin, Mary Anne Poatsy, <i>Technology in Action Computer</i>, 16th Edition (2020) 3. Ahmed Banafa, <i>Introduction to Artificial Intelligence (AI)</i>, 1st Edition (2024) 4. Dr. Adel Abdul Nour, <i>Introduction to the World of Artificial Intelligence</i>, 2005 5. Ali Al-Khidr, <i>Computer Fundamentals</i>, 2016
Recommended books and references	<ul style="list-style-type: none"> • <i>Microsoft Office 2019 Step by Step</i>, 1st Edition by Curtis Fry & Joan Lambert

(scientific journals, reports...)	
Electronic References, Websites	<ol style="list-style-type: none">1. https://www.haio.ir/app/uploads/2022/05/Learn-Microsoft-Office-2019-A-comprehensive-guide-to-getting-started-with-Word-PowerPoint-Excel-Access-and-Outlook-Linda-Foulkes-z-lib.org_.pdf2. https://www.just.edu.io/~mqais/CIS99/PDF/Ch.01_Introduction%20to_computers.pdf3. https://www.tutorialspoint.com/computer_fundamentals/computer_quick_guide.htm4. https://edu.gcfglobal.org/en/computerbasics/basic-troubleshooting-techniques/1/

Course Description Form

University of Mosul

College of Medicine

Department of Medicine

1. Course Name:	
Medical Terminology	
2. Course Code:	
MCMT108	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
15/10/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15 hours (theory) 30 hours (practice), Total (45 hours)/ 2Units	
7. Course administrator's name (mention all, if more than one name)	
Assist. Prof. Dr Qasim S. Al Chalabi	Qasimalchalabi@uomosul.edu.iq
Assist. Lec. Ms. Rawia Tarik Kassab-Bashi	rawiya.kassabbashi@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The aim of this course is to develop familiarity with medical terminology and its structure and understand and apply terms related to body systems, diagnostic tools, and medical procedures. By the end of this course, the student will be able to: interpret and use abbreviations, eponyms, and homonyms in medical contexts</p> <p>Knowledge:</p> <p>K1. Define the basic word elements (prefixes, suffixes, and root words) used in medical terminology (KP1).</p> <p>K2. Describe the meaning of medical terms related to body systems, organs, and anatomical structures (KP1).</p> <p>K3. Recognise the standard conventions of medical spelling and pronunciation (KP1).</p> <p>Skills</p> <p>S1. Accurately construct medical terms using appropriate prefixes, roots, and suffixes (PC1).</p> <p>S2. Analyse case reports, diagnostic results, and medical records using correct terminology (PC1).</p> <p>S3. Apply knowledge of terminology in problem-solving exercises, case scenarios, and clinical simulations (PC1).</p> <p>Attitude</p> <p>A1. Demonstrate respect for patients by using clear and appropriate terminology, avoiding confusing jargon when communicating with them.</p> <p>A2. Recognise the role of medical terminology in fostering clear, professional communication among healthcare team members.</p> <p>A3. Exhibit professional responsibility by ensuring clarity, honesty, and integrity when using medical terms in academic and clinical settings</p>

9. Teaching and Learning Strategies					
Strategy		Lectures and Interactive Presentations, Small Group Discussions Audio-Visual Aids Continuous Feedback			
10. Course Structure					
Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1	1	Introduction to Medical terminology, word roots, Suffixes, and prefixes.	Word Analysis & Combining Forms, Suffixes, and Prefixes	Lecture with students' activities	Quiz on word parts
2	1	practice exercises on medical terminology (Case study on diabetes)	In Person: Living With Type 1 Diabetes Exercises and Answers	Writing examples	Case study analysis, quiz on exercises
3	1	Assessment of terminology knowledge, an overview of human Body systems.	Terminology Checkup & Introduction to Body Systems	Lecture with students' activities	Terminology test, quiz on body systems
4	1	Study of body cavities and Divisions of the back.	Body Cavities & Divisions of the Back	Lecture with students' activities	Quiz on body cavities and back divisions
5	1	Learning about anatomical planes, review of medical Terminology.	Planes of the Body & Terminology	Lecture with students' activities	Quiz on anatomical planes, terminology quiz
6	1	Case study on medical imaging, practice exercises on medical Terminology.	In-Person: CT and MRI & Exercises and Answers	Lecture with students' activities	Case study analysis, quiz on exercises
7	1	Review of word parts.	Combining Forms, Suffixes, and Terminology	Lecture with students' activities	Terminology test, quiz on word parts

8	1	Case study on gallbladder disease, practice exercises on Medical terminology.	In Person: Gallbladder Stones & Exercises and Answers	Lecture with students' activities	Case study analysis, quiz on exercises
9	1	Explore ethical and legal aspects of healthcare.	Additional Topic (e.g., Medical Ethics, Legal Issues)	Lecture with students' activities	Discussion, essay, or presentation
10	1	Review of word parts.	Combining Forms, Suffixes, and Terminology	Lecture with students' activities	Terminology test, quiz on word parts
11	1	Overview of the unit, review of word parts.	Introduction & Combining Forms and Suffixes	Lecture with students' activities	Quiz on word parts
12	1	Learn about prefixes and their meanings in medical terms.	Prefixes and Terminology	Lecture with students' activities	Quiz on prefixes
13	1	Case study on knee replacement surgery, practice exercises on medical terminology.	In Person: Total Knee Replacement (TKR) & Exercises and Answers	Lecture with students' activities	Case study analysis, quiz on exercises
14	1	Introduction to Medical specialties, roles of healthcare Professionals.	Introduction & Medical Specialists	Lecture with students' activities	Quiz on Medical specialties
15	2	Learning medical vocabulary, Analyzing case studies.	Combining Forms and Vocabulary & Case Reports	Lecture with students' activities	Vocabulary quiz, case study analysis
16	2	History taking is a crucial aspect of medical practice. Physicians need to be very careful during history taking.	History taking	Listening and writing with students' activities	Written and practical exam

17	2	Learn how to communicate with patients	History taking/ 2	Listening and writing with students' activities	Written and practical exam
18	2	Practice pronunciation of medical terms, application of medical terminology in real world scenarios.	Pronunciation of Terms & Practical Applications	Listening and writing with students' activities	Written and practical exam
19	2	Visual learning of medical terms, a comprehensive review of Unit 1.	Picture Show & Review	Listening and writing with students' activities	Written and practical exam
20	2	Learning how the patients present their physical complaints	Presenting Complaints	Listening and writing with students' activities	Written and practical exam
21	2	Learning how to communicate with patients	Presenting Complaints 2	Listening and writing with students' activities	Written and practical exam
22	2	Practice pronunciation of medical terms, application of medical terminology in real world scenarios.	Pronunciation of Terms & Practical Applications	Listening and writing with students' activities	Written and practical exam
23	2	Visual learning of medical terms, comprehensive review of Unit 2.	Picture Show & Review	Listening and writing with students' activities	Written and practical exam
24	2	Understand and practice the skills of using terms in real scenarios	Medical and Non-medical terms	Listening and writing with students' activities	Written and practical exam

25	2	Practice the terms that are related to different procedures in real life	Instructions & Procedures 1	Listening and writing with students' activities	Written and practical exam
26	2	Practice pronunciation of medical terms, application of medical terminology in real world scenarios.	Pronunciation of Terms & Practical Applications	Listening and writing with students' activities	Written and practical exam
27	2	Practice the terms that are related to different procedure in real life scenarios	Instructions & Procedures 2	Listening and writing with students' activities	Written and practical exam
28	2	Learn the different types of abbreviations and their construction	abbreviations and acronyms	Listening and writing with students' activities	Written and practical exam
29	2	Learn different terms that are related to everyday practice of general practitioners	Working in general practice	Listening and writing with students' activities	Written and practical exam
30	2	Practice pronunciation of medical terms, application of medical terminology in real world scenarios.	Pronunciation of Terms & Practical Applications	Listening and writing with students' activities	Written and practical exam

11. Course Evaluation

Assessment Methods:

Total Marks: 100

25 Marks for the Midterm Exam.

25 Mark for the Practical exam.

50 Marks for the Final Exam.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ol style="list-style-type: none">1. Theoretical: - Connolly, D. (2019). Medical terminology: Quickly build your medical vocabulary: Effective Techniques for pronouncing, understanding, & memorizing medical terms https://archive.org/details/isbn_9781950921096.2. Practical: Oxford English for Careers: Medicine 1 Student's Book
Main references (sources)	<ol style="list-style-type: none">1. Theoretical: Gylys, B. A., & Masters, R. M. (2014). Medical terminology simplified: A programmed Learning approach by body system (5th ed.). F. A. Davis Company.2. Practical: Oxford English for Careers: Medicine 1 Student Book
Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none">- Grace, S. (2023). Medical Terminology Made Easy: The easy-to-follow guide to mastering Terminology for nursing and healthcare professionals.- Oxford Handbook of Clinical Medicine. 7th edition, longmore et al, ISBN 978-0-19-856837-7
Electronic References, Websites	https://www.dmu.edu/medterms/basics/

Course Description Form

University of Mosul

College of Medicine

Department of Physiology

1. Course Name:	
Medical Physiology	
2. Course Code:	
MCPs201	
3. Semester / Year:	
First and Second /2025-2026	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Register attendance in person	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Practical hours=90 Theoretical hours=150 Total=240 (13 unit)	
7. Course administrator's name	
Name: Arwa Faiq Jameel, Email: arwa.jameel@uomosul.edu.iq	
8. Course Objectives	
Course Objectives	<p>Human Physiology: is the discipline that studies the relationship between the human body function from the level of cells to the organs and its relation to their structure (how the human organs work normally), it includes the mechanical, physical and biochemical processes that maintain Homeostasis. Human physiology is the foundation for modern medicine. By the end of this course the student will be able to:</p> <p><u>Knowledge:</u></p> <p>K1: Differentiate between the basic function of each body system of the human being. (KP1)</p> <p>K2: Demonstrate and apply knowledge related to the basic function of each body system of the human being. (KP1)</p> <p>K3: Describe in detail the specific function of each body system (e.g. Nervous system, Respiratory, cardiovascular, muscular, etc.) (KP1)</p> <p>K4: Integrate the knowledge about the clinical physiology and clinical application (KP1)</p> <p><u>Skills:</u></p> <p>S1: Recall all the human physiology concepts that needed to investigate the organ systems and the normal ranges levels.</p> <p>S2: develop the Critical thinking and problem-solving abilities that needed for careers in medicine.</p> <p>S3: Practice research skills through physiology, including experimental design, data analysis, and scientific communication.</p> <p>S4: Develop student knowledge and practical lab skills that produce strong understanding of human systems that can be practiced in healthcare.</p> <p>S5: Practice using medical instrument and how they can connect them to the subjects.</p>

	<p>S6: Deliver an organized, clear, and focused oral presentation</p> <p>Attitude:</p> <p>A1: Participant actively in learning by practice active listening and engaging in discussions with both the lecturer and fellow students.</p> <p>A2: Work effectively in a team, demonstrating both collaboration and leadership skills during group activities or practical sessions.</p> <p>A3: The student appreciate their medical information and acknowledge using and keeping all instrument in a safe way</p> <p>A4: Work and communicate clearly and effectively with profession and team, consultants, and other members of the interprofessional team.</p>
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9. Teaching and Learning Strategies

Strategy	<ol style="list-style-type: none"> 1. Large group teaching: (theoretical lectures) 5 lectures / week. 2. Practical laboratory sessions: The students are divided into small groups each of 8-10 students to conduct human experiments which can only be carried out on volunteers after obtaining their informed consent. The volunteers should be aware of the circumstances and possible outcomes of the experiment. 3. Analyzing the results of experiments 4. Discuss the outcomes and compare with the normal ranges
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Outline body fluid compartments and identify the importance of water balance in the body. Demonstrate cell physiology	Introduction to physiology Cell and body fluid	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam
2	5	Describe the neuron, resting potential & action potential	Nerve Physiology	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam
3	5	Classify the types of muscle fibers and the differences between them, muscle action potential & discuss the neuromuscular junction	Muscle physiology	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam

4	5	Discuss the characteristics of autonomic nervous system & differentiate between sympathetic and parasympathetic nerve structure and function	Autonomic nervous system	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam
5-7	50	Explain the blood composition, blood cell functions & immunity.	Blood physiology	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam
7-10	15	Classify the types of sensory receptors and their sensory stimuli. Discuss the meaning of adaptation of receptors, & explain the way of sensory receptor excitation.	Sensory nervous system	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam
10-13	35	Describe the main mechanism of the heart function, the electrical activity of the heart & the mechanism of blood pressure	Cardiovascular System	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam
13-16	14	Differentiate the parts of GIT and relate their role in digestion and absorption	Gastrointestinal Tract	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam
16-19	29	Demonstrate the structure and function of the respiratory system and correlate the basic physiological process with clinical aspects	Respiratory System	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam
19-21	14	Describe the anatomy of the endocrine system & the main mechanism of action of the endocrine system	Endocrine system	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam
21-23	8	Comprehend physiology of female & male reproductive system	Reproductive system	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam

23-26	18	Demonstrate functions of the kidneys in homeostasis & describe the chemical acid-base buffer systems of the body fluids	Renal & acid base	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam
26-28	16	Define motor unit & motor areas, explain alpha and gamma motor neuron & discusses reflexes types.	Motor nervous system	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam
28-30	22	Outline physiological aspects of hearing pathway, discuss the mechanism of stimulation of rods and cons & others.	Special sense	Theoretical lectures and practical labs	Short assay OR MCQs + Practical exam

11. Course Evaluation

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

Summative assessment:

1. Mid-year practical exam 10 %
2. Mid-year exam theoretical 30 %
3. Quiz exam. 05 %
4. Final practical exam 10 %
5. Final theoretical exam. 45 %

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Guyton and Hall Textbook of Medical Physiology
Recommended books and references (scientific journals, reports...)	1. Lippincott's Illustrated Reviews: Physiology 2. Ganong's's Review of Medical physiology
Electronic References, Websites	Lectures and practical labs information

Course Description Form

University of Mosul

College of Medicine

Department of Anatomy

1. Course Name:	
Anatomy	
2. Course Code:	
McAn202	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total credit hours = 240 (Theoretical hours: 60 hrs./Practical hours: 180 hrs.) Total Units: 10	
7. Course administrator's name (mention all, if more than one name)	
Assist. Prof. Dr. Omar Rhiadh	omarrh@uomosul.edu.iq
Assist. Prof. Dr. Ahmed Hisham	ahmedhq@uomosul.edu.iq
Lecture Dr. Ashraf Al-Samadi	ashrafabdulraheem@uomosul.edu.iq
Lecturer Dr. Saddam Abdulhusain	saddamah@uomosul.edu.iq
Lecturer Harith Ali Hassan	harith.hasan@uomosul.edu.iq
Assist. Lecturer Mustafa M. Hadi	mustafa.mohammed@uomosul.edu.iq
Assist. Lecturer Sura A. Mahmood	Sura.atallah@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The overall goal of this course is to provide students with fundamental anatomical knowledge of the normal structure of the human body at the levels of the head, neck, brain, spinal cord, abdomen, and pelvis, and to integrate this anatomical information with advanced knowledge in clinical sciences.</p> <p>Knowledge:</p> <p>K1: Demonstrate and apply knowledge related to the basic principles of anatomy (e.g., terminology, tissue types, structural organization). (KP1)</p> <p>K2: Describe the detailed anatomy of the head, neck, abdomen, and pelvis, as well as neuroanatomy, including bones, muscles, nerves, blood vessels, and organs. (KP1)</p> <p>K3: Integrate anatomical knowledge with clinical practice, including performing proper physical examination and understanding the clinical signs and symptoms that appear with injury to specific peripheral nerves. (KP1)</p> <p>Skills:</p> <p>S1: Identify the locations of anatomical structures of the head, neck, abdomen, pelvis, and neuroanatomy on a 3D model. (PC1)</p> <p>S2: Recognize normal anatomical structures on standard X-ray images and point them out. (PC1)</p>

	<p>S3: Correlate surface landmarks with various anatomical structures and determine the location or course of internal structures. (PC1).</p> <p>Attitudes:</p> <p>A1: Actively participate in the learning process by engaging in discussions with the instructor and fellow students. (CSP1)</p> <p>A2: Respect peers and adhere to ethical standards when working with cadaveric specimens, acknowledging their importance for learning and the generosity of the human body. (ETW1)</p> <p>A3: Work effectively within a team, demonstrating both collaboration and leadership skills during group activities or practical sessions. (ETW3).</p>
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • large group teaching: (theoretical lectures) 2 lectures / week • Practical laboratory sessions: The students are divided into small groups each of 10-15 students. Plastinated cadavers, skeletons, bone and organ specimens will be available for students. X-ray imaging films will be available to learn different bony landmarks • Team-based learning sessions.
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-9	72	<ol style="list-style-type: none"> 1. Describe the anatomical components of the head and neck, including bones, muscles, blood vessels, nerves, and organs. 2. Identify the important anatomical relationships between different structures in the head and neck. 3. Explain the anatomical pathways of the cranial nerves and their functional distribution. 4. Discuss the arterial, venous, and lymphatic distribution in the head and neck and its clinical significance. 5. Recognize the cranial foramina and openings and their contents. 6. Interpret the anatomical basis of common clinical conditions in the head and neck region (e.g., headache, facial nerve palsy, lymph node enlargement). 	Head and neck	Lectures + Practical labs	Short assay OR MCQs + Practical spot exam

10-18	72	<ol style="list-style-type: none"> 1. Define the basic structures of the central and peripheral nervous systems. 2. Describe the anatomical organization of the brain (cerebrum, cerebellum, brainstem) and the spinal cord. 3. Explain the pathways of the major nerve fibers (sensory, motor, and mixed). 4. Differentiate between cranial and spinal nerves and their functions. 5. Interpret the relationship between neural anatomical structures and their corresponding neurological functions. 	Neuroanatomy	Lectures + Practical labs	Short assay OR MCQs + Practical spot exam
19-26	64	<ol style="list-style-type: none"> 1. Describe the anatomical boundaries and subdivisions of the abdominal cavity. 2. Identify the major abdominal viscera (stomach, intestines, liver, spleen, pancreas, kidneys, and adrenal glands), their locations, and relationships. 3. Explain the arterial, venous, and lymphatic supply of the abdominal cavity. 4. Describe the autonomic innervation (sympathetic and parasympathetic) of the abdominal viscera. 5. Interpret the peritoneal membranes (peritoneum), their folds (mesenteries, omenta, ligaments), and their relationships with the viscera. 	Anatomy of the Abdomen	Lectures + Practical labs	Short assay OR MCQs + Practical spot exam

27-30	32	<ol style="list-style-type: none"> 1. Describe the bony boundaries and subdivisions (greater and lesser pelvis) of the pelvic cavity. 2. Identify the muscles forming the pelvic floor and explain their functional significance. 3. Explain the pelvic viscera (bladder, rectum, internal reproductive organs) and their anatomical relationships. 4. Describe the arterial, venous, and lymphatic supply of the pelvis. 5. Explain the autonomic innervation (sympathetic and parasympathetic) of the pelvic viscera. 6. Highlight the anatomical differences between the male and female pelvis and their clinical significance. 	Anatomy of the Pelvis	Lectures + Practical labs	Short assay OR MCQs + Practical spot exam
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11. Course Evaluation

- 20% mid-year theoretical examination
- 10% mid-year practical examination
- 70% final year examination (theoretical 50%, and practical 20%)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ol style="list-style-type: none"> 1. Grants Atlas of Anatomy 2. Snell's Clinical Anatomy by Regions
Main references (sources)	<ol style="list-style-type: none"> 1. Gray's Anatomy for student's 4th edition 2. Moore's clinically oriented anatomy 9th edition
Recommended books and references (scientific journals, reports...)	Netter Atlas of Human Anatomy, 7th edition
Electronic References, Websites	Google classroom platform

Course Description Form

University of Mosul

College of Medicine

Department of biochemistry

1. Course Name:	
Biochemistry	
2. Course Code:	
McBi203	
3. Semester / Year:	
1 st and 2 nd /2025-2026	
4. Description Preparation Date:	
11/8/2025	
5. Available Attendance Forms:	
Register attendance in person	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total=150 hours/ 8 units (90 hours theoretical, 60 hours practical)	
7. Course administrator's name	
Asst. prof. Dr. Sura Khairialdeen	skm@uomosul.edu.iq
Lecturer. Dr. Amjad Hazim	aha@uomosul.edu.iq
Asst. prof. Dr. Ehsan Hassan	ihssanht@uomosul.edu.iq
Lecturer . Saba Khairy Saleh	sks@uomosul.edu.iq
Lecturer Dr. Raghad Khalil	raghadki@uomosul.edu.iq
Ass.lecturer Nashwan Sadiq	nashwan.sadeq@uomosul.edu.iq
8. Course Objectives	
<ul style="list-style-type: none"> • The scientific-knowledge building • employing the ability and refining the skill • in order to assimilate the scientific foundations in the subject of biochemistry • in order to understand and assimilate the natural chemical reactions that take place inside the human body. 	
Course Objectives	<p>A. Knowledge:</p> <p>K1. Recall the basic concepts of major body metabolism and its important biochemical pathways and reactions. (KP1)</p> <p>K2. Repeat the mechanisms of different diseases that develop due to metabolic derangements and/or genetic mutations. (KP1)</p> <p>K3. Recognize the possible treatment of different diseases by analyzing the metabolic (or molecular) etiology. (KP1, KP6)</p> <p>K4. Arrange how to make final diagnosis of common chronic diseases that develop due to disturbances of body metabolism by using biochemical and/or molecular laboratory tests. (KP1)</p> <p>K5. Arrange signs and symptoms and expect the clinical findings of a disease that result from disturbances in body metabolism. (KP1)</p> <p>K6. Select the appropriate body specimen to conduct the appropriate lab analysis that aids in confirmation of diagnosis of different diseases and acquire the necessary knowledge to conduct the lab experiments with the ability to interpret results. (KP1)</p> <p>Skill:</p> <p>S1. Enable the student to understand biochemistry and its benefit (PC1)</p> <p>S2. Enable the student to conduct laboratory examinations (PC1)</p>

	<p>S3. The student is able to work in team (PC1)</p> <p>S4. Identify the link between the materials produced from raw materials, understand their path, and to transform them from their natural path to other paths for mutual benefit.(PC1)</p> <p>Attitude</p> <p>A1. the student will be able to recognize any ethical problems in relation to the topics and act accordingly (CSP1).</p> <p>A2. the student will acknowledge the importance of wearing gloves and mask in chemical lab.(ETW2).</p> <p>A3 And the effective team-working and leadership skills. (ETW3)</p>
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9. Teaching and Learning Strategies

Strategy	<p>1.Theoretical lectures 3 lectures / week</p> <p>2.Practical labs or clinical sessions The students are divided into small groups</p> <p>3. Activity Each 5-7 students are required to present an activity on specific subject</p> <p>4. Others/example e-learning</p>
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	10	Understanding types of vitamins and water soluble vitamins, fat soluble vitamins, Knowing the diseases caused By vitamins deficiency	vitamins	Theoretical lectures And practical lab	Mid and final examination Practical examination
3-6	20	Understanding amino acids	Amino-acid	Theoretical lectures And practical lab	Mid and final examination Practical examination
7-10	20	Understanding nucleic acid	Nucleic acid	Theoretical lectures And practical lab	Mid and final examination Practical examination
11-12	10	Understanding enzymes	Enzymes	Theoretical lectures And practical lab	Mid and final examination Practical examination
13-15	15	Understanding carbohydrates	Carbohydrates	Theoretical lectures And practical lab	Mid and final examination Practical examination
16-20	25	Understanding Hormones	Hormones	Theoretical lectures And practical lab	Mid and final examination Practical examination

21-23	15	Understanding lipids	Lipids metabolism	Theoretical lectures And practical lab	Mid and final examination Practical examination
24-25	10	Understanding Bioenergetics and Biological Oxidation	Bioenergetics and Biological Oxidation	Theoretical lectures And practical lab	Mid and final examination Practical examination
26-27	10	Understanding nutrition Understanding Liver function tes	Nutrition, Liver function tests	Theoretical lectures And practical lab	Mid and final examination Practical examination
28	5	Understanding porphyrins	Porphyrins	Theoretical lectures And practical lab	Mid and final examination Practical examination
29	5	Understanding tumor markers	tumor markers	Theoretical lectures And practical lab	Mid and final examination Practical examination
30	5	Understanding Trace elements, Understanding Renal function	Trace elements, Renal function	Theoretical lectures And practical lab	Mid and final examination Practical examination

11. Course Evaluation

Mid-year exam: 20% theoretical
30% practical + Activity
Final exam: 50% theoretical .

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	1. Lippincott's illustrated reviews of Biochemistry 2. Review of physiological chemistry by H A Harper
Recommended books and references (scientific journals, reports...)	3.Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, by Nader Rifai, 6th Edition.
Electronic References, Websites	Theoretical and practical lectures in all the mentioned specializations

Course Description Form

University of Mosul

College of Medicine

Department of Anatomy

1. Course Name:	
Histology	
2. Course Code:	
McAn204	
3. Semester / Year:	
First and second/ 2025-2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Register attendance in person	
6. Number of Units (Total)	
Practical hours ,90 (3 units), Theoretical hours, 45 (3 units) Total: 6 units	
7. Course administrator's name (mention all, if more than one name)	
Dr. Rand Abdulateef Abdullah	rundabdullateef@uomosul.edu.iq
Dr. Muna Zuhair	mza@uomosul.edu.iq
Dr. Rana Mustafa	rma@uomosul.edu.iq
Dr. Faten Thanoon	fatendhanoon@uomosul.edu.iq
Dr. Rana Mumtaz	rmr@uomosul.edu.iq
Inam A. Abdulhameed	inaamaljalili@uomosul.edu.iq
Shymaa Faisal Youni s	shaimaafy@uomosul.edu.iq
Alyaa Ali Abdullah	alyaa.saffo@uomosul.edu.iq
Maha Al- sammak	maa@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The overall aim of the course is to provide the students with the basic histological knowledge of the normal tissues of human in different organs and to integrate these histological facts with more advanced knowledge of clinical sciences.</p> <p>Knowledge:</p> <p>K1. Describe the structural characteristics of the four basic tissue types, bone & cartilage (KP1).</p> <p>K2. Define and discuss the basic histological structure of Vascular system, Lymphatic system, Endocrine system, Respiratory system, Renal system, Digestive system, Reproductive system, histological structure of Skin, Eye, Ear. (KP1)</p> <p>K3. Integrate all the above histological information's with clinical practice and health problems (KP1).</p> <p>Skills:</p> <p>S1. Illustrate the instruments and techniques used to prepare and study histological specimens. (PC1)</p> <p>S2. Use the microscope efficiently. (PC1)</p> <p>S3. Handle the histological glass slides and examine them using the maximum microscopic facilities and identify various types of stains. (PC1)</p>

	<p>Attitude:</p> <p>A1. The students will be alert because they learn how to pay attention and listen with respect (CSP1).</p> <p>A2. They will respond actively and share in the discussion with lecturer and with each other (ETW1).</p> <p>A3. Valuing of their behaviors, ideas, personality, and ways of dealing. (ETW3).</p> <p>A4. Resolving problems between them according to these ethical values. (ETW3).</p>
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9. Teaching and Learning Strategies

Strategies	<ol style="list-style-type: none"> 1. Theoretical lectures (2 lectures / week) 2. Practical labs or clinical sessions The students are divided into small groups each of 10 students, Histological slides will be examined under light microscope. 3. Seminars and presentations Each 5-7 students are required to present a seminar on specific subject. 4. Others/example e-learning: Histology guide is website to study all subjects related to histology.
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10. Course Structure

Week	Hours	Subject Name	Main Learning Outcome	Learning method	Evaluation method
1	4	Introduction to Histology	Describe concept of Histology	Lectures + Practical labs	Short essay OR MCQ+ Practical exam
1-3	10	Cardiovascular System	Describe the histology of blood vessels and heart	Lectures + Practical labs	Short essay OR MCQ+ Practical exam
3-5	10	Lymphatic System	Describe the histology of lymphatic vessels and lymphatic organs	Lectures + Practical labs	Short essay OR MCQ+ Practical exam
5-8	22	Digestive System	Describe the histology of digestive duct	Lectures + Practical labs	Short essay OR MCQ+ Practical exam
9-10	10	Respiratory System	Describe the histology of respiratory system	Lectures + Practical labs	Short essay OR MCQ+ Practical exam
11-12	16	Endocrine System	Describe the histology of endocrine system	Lectures + Practical labs	Short essay OR MCQ+ Practical exam
13-14	12	Male Reproductive System	Describe the histology of endocrine system	Lectures + Practical labs	Short essay OR MCQ+ Practical exam
14-15	9	Renal System	Describe the histology of endocrine system	Lectures + Practical labs	Short essay OR MCQ+ Practical exam
16-20	19	Female Reproductive System	Describe the histology of endocrine system	Lectures + Practical labs	Short essay OR MCQ+ Practical exam

21-24	10	Nervous System	Describe the histology of endocrine system	Lectures + Practical labs	Short assay OR MCQ+ Practical exam
25-26	5	Skin	Describe the histology of skin	Lectures + Practical labs	Short assay OR MCQ+ Practical exam
27-28	5	Eye	Describe the histology of eye	Lectures + Practical labs	Short assay OR MCQ+ Practical exam
28-30	5	Ear	Describe the histology of eye	Lectures + Practical labs	Short assay OR MCQ+ Practical exam

11. Course Evaluation

midyear exam: 30% (10 practical, 20 theoretical)

Final exam: 70% (20 practical+50 theoretical)

12. Learning and Teaching Resources

Required textbooks (curricular books)	Mesher, A. (2013) Junqueira's Basic Histology Text & Atlas 13th ed, McGraw-Hill
Recommended books and references (scientific journals, reports...)	<ol style="list-style-type: none"> 1. Young, B., O'Dowd, G. and Woodford, P. (2016) Wheater's Functional Histology. A Text and Color Atlas 6th ed. Churchill Livingstone, Edinburgh 2. Eroschenko, VP and di Fiore MSH (2013) di Fiore's Atlas of Histology with functional correlations. 12th ed. Wolters Kluwer / Lippincott, Williams & Wilkins Int., Baltimore.
Electronic References, Websites	Histologyguide.com website used as external virtual microscopy database.

Course Description Form

University of Mosul

College of Medicine

Department of Anatomy

1. Course Name:	
Embryology	
2. Course Code:	
MCAAn205	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours/3 units (30 hours theory)	
7. Course administrator's name (mention all, if more than one name)	
prof. Dr. Luma Alallaf.	lik@uomosul.edu.iq
Lecturer. Dr. Rana Mustafa	rma@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The overall aim of the course is to provide the students with the basic knowledge in embryology and to define the important stations regarding the normal development with discussing the features of abnormal development and to integrate these anatomical facts with more advanced knowledge of clinical sciences.</p> <p>Knowledge:</p> <p>K1: The overall aim of the course is to provide the students with the basic knowledge in embryology (KP1).</p> <p>K2: define the important stations regarding the normal development with discussing the features of abnormal development (KP1).</p> <p>K3: Integrate these anatomical facts with more advanced knowledge of clinical sciences (KP1).</p> <p>Skills</p> <p>S1: Train the students on how present their questions and on any subject of the lecture. (PC1)</p> <p>S2: Train the students on how present any concept or ideas on different subjects of embryology (PC1).</p> <p>S3: Train the students on how to reach the diagnosis of some conditions by attending the lectures in the consulting units of pediatric surgery (PC1).</p> <p>S4: Train the students on different communication skill among them (PC1).</p> <p>S5: Define the expected day of delivery of pregnant with practical training on some cases in hospitals at ultrasound unit and operation theater (PC1).</p> <p>Attitude</p> <p>A1. The student will be alert because they learn how to pay attention (CSP1).</p> <p>A2. They will respond actively and share in the discussion with lecturer and with each other (ETW1).</p>

	A3. Valuing of the behaviors, ideas, personality, and ways of dealing (ETW3). A4. Resolving problems between them according to these ethical values.
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9. Teaching and Learning Strategies

Strategy	large group teaching: (theoretical lectures) one lectures / week
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-14	14	1. Gametogenesis 2. Fertilization 3. Mensural cycle 4. Bilaminar germ disc 5. Trilaminar germ disc 6. Placenta, umbilical cord, amniotic fluid	General embryology	Theoretical lectures	MCQ or short assay.
15-30	16	1. Branchial apparatus 2. GIT system 3. Genitourinary system 4. Respiratory system	Special embryology	Theoretical lectures	MCQ or short assay.

11. Course Evaluation

midyear exam: 30% (theoretical)

Final exam: 70% (theoretical).

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Longman's medical embryology
Main references (sources)	1. Obstetrics by Ten Teachers. 2. Grant Atlas of Anatomy. 3. Snell's Clinical Anatomy by Regions.
Recommended books and references (scientific journals, reports...)	Nil
Electronic References, Websites	https://embryology.org/

Course Description Form

University of Mosul

College of Medicine

Department of surgery

1. Course Name:	
Medical ethics	
2. Course Code:	
MCCo206	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
10/10/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total credit hours = 30 (Theoretical hours: 30 hrs./Practical hours: zero hrs.) Total Units: 2	
7. Course administrator's name (mention all, if more than one name)	
Dalya Abdulkhader	dalyafalaki_radio@uomosul.edu.iq
Lecturer. Dalal Ahmed	dalal.ramadhan@uomosul.edu.iq
lecturer. Oqba Abdulnafi	oqba_dawood@uomosul.edu.iq
lecture. Marwa Muhammed Salih	Marwa.alrasheedy@uomosul.edu.iq
Lecturer. sabreen Jabbar	sabreen.jabbar@uomosul.edu.iq
Lecturer. EnasTaha	enas.mohammed@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The course aims to provide students with the necessary and sufficient information in medical ethics and professional behavior so that the student is able to apply the necessary practices and medical ethics when practicing the profession in the future. by the end of this course the student will be able to</p> <p>Knowledge Demonstrate and apply knowledge related to fundamental principles of medical ethics (terminology, pediatric and psychiatric ethics, abortion ethics (KP1) Integrate the knowledge with clinical practice (KP1)</p> <p>Skills relate the ethical principles in different medical issues and dilemma (PC1)</p> <p>Attitude Participate actively in learning by engaging in discussions with lecturer and fellow student (CSP1) Respect colleagues and behave according to ethical standards (ETW1)</p>
9. Teaching and Learning Strategies	
Strategy	Strategy : by giving theoretical lectures and discussion about different medical ethics issues which may face the students .

10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-15	15	<ol style="list-style-type: none"> 1. Define medical ethics and development of the moral obligation towards the medical profession 2. Define Hippocratic Oath and identify medical ethical foundations 3. Describe ethical principles 4. Identify the ethical relationship between doctor and patient and his colleagues and nursing staff 5. Distinguish ethical principles in the practice of surgery and define the relationship between the surgeon and the patient 6. Define the ethical foundations in the practice of abortion, infertility and contraceptive 7. Explain the ethical foundations of pediatrics and psychiatry 8. Describe euthanasia 9. Explain the ethical aspect of organ transplantation 10. Identify molecular biology and genetic engineering technology 11. Distinguish the ethical foundations of public health and community medicine 12. Describe the ethics of dealing with pharmaceutical companies 13. Identify medical errors and 14. Enumerate the types of medical errors 15. Explain the ethics of dealing with plastic surgery 16. Explain the ethics of dealing with cases of treatment refusal 	Medical ethics	Lectures	Short assay OR MCQs

16 - 30	15	<ol style="list-style-type: none"> 1. Describe the professional medical behavior 2. Identify the medical secret 3. enumerate the justifications for disclosing medical secrets 4. explain the responsibility in diagnosis 5. Explain responsibility in treatment 6. Characterize the doctor's relationship with his patients 7. Describe the doctor's relationship with his fellow doctors 8. Describe the doctor's relationship with his fellow pharmacists 9. Explain the moral aspects of psychological and mental illnesses 10. Explain the medical report 11. Enumerate the types of medical reports 12. Explain the death certificate report 13. Explain the testimony in the judiciary 14. Identify the laws and doctors 15. Identify the Doctors Syndicate 	Professional behavior	Lectures	Short essay OR MCQs
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11. Course Evaluation

- 30% mid-year theoretical examination
- 70% final year examination (theoretical)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<p>World Health Organization, Sixty-third World Health Assembly, Agenda item 11-21, 2010</p> <p>Fifty-seventh World Health Assembly. 2004</p> <p>German controls for the process of ants and the transplantation of human organs between neighborhoods, College of Law - Ain University</p> <p>Shams researcher / Mahmoud Thabet Mahmoud Ala Al-Shazly. Journal of Middle East Research Issue 44</p>
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	<p>The Kuwait Theme on the Islamic Constitution of the Medical Profession issued by the First World Conference on Islamic Medicine</p> <p>Baptized in Kuwait in the period 12-16/12/1981</p> <p>Illnesses of Medicine A/D: Jamal Salih Jareh</p>
Main references (sources)	Medical behavior and professional ethics
Recommended books and references (scientific journals, reports...)	Web and internet as a source of information.
Electronic References, Websites	Nil

Course Description Form

University of Mosul

College of Medicine

Supporting Sciences Unit

1. Course Name:						
The crimes of the Baath regime in Iraq						
2. Course Code:						
MCBc 207						
3. Semester / Year:						
Second Year/ 2025-2026						
4. Description Preparation Date:						
2/9/2025						
5. Available Attendance Forms:						
weekly (theoretical)						
6. Number of Units (Total)						
2 Unit 30 Hours The First Semester and second Semester						
7. Course administrator's name						
Lecturer Shaima Hatem Rashid			shaimaahr@uomosul.edu.iq			
Assistant Lecturer Yasir Talal Nadheer			yasir.talal@uomosul.edu.iq			
8. Course Objectives						
Course Objectives	<p>The course aims to enlighten the younger generation about the crimes committed by the Baath regime, the negative consequences of which were reflected in Iraqi society, and to guide the student to familiarity and knowledge of the crimes. Educating students about the seriousness of crimes, rejecting all forms of injustice and tyranny of these regimes, and demanding all civil rights</p> <p>Knowledge outcomes:</p> <p>A1) Introducing the student to the extent of the injustice and terrorism that the Baath regime imposed on the people.</p> <p>A2) Introducing the student to the crimes committed by the Baath regime that fall within international issues.</p> <p>A3) Educating students about the most prominent violations of Iraqi laws.</p> <p>A4) Explaining the seriousness of crimes to the environment, such as burning orchards, draining marshes, etc</p>					
9. Teaching and Learning Strategies						
Strategy : Large group theoretical lectures						
10. Course Structure						
We	ek	Ho	Subject Name	Main Learning Outcome	Learning method	Evaluation method
1		1	Baath crimes according to Court law Iraqi criminal	The student learn about crimes Baath according to the law Iraqi Criminal Court	Lecture	Written test
2		1	The concept of crimes and their types	To distinguish between concept Crimes and their types	Lecture	Written test

3	1	Definition of crime linguistically and idiomatically	To clarify for the student Terminology and language	Lecture	Written test
4	1	Crime departments	To learn about the sections Crimes	Lecture	Written test
5	1	Types of international crimes	To learn about the types International crimes	Lecture	Written test
6	1	Decisions issued by the criminal court	to identify Decisions issued by Criminal court	Lecture	Written test
7	1	Psychological crimes Social and prominent Baath Party violations	To identify crimes Psychological and social The most prominent party violations Resurrection	Lecture	Written test
8	1	Psychological crimes	to identify Psychological crimes	Lecture	Written test
9	1	Mechanisms of psychological crimes	To learn about the mechanisms Psychological crime	Lecture	Written test
10	1	Psychological effects of crimes	to identify Psychological effects of crimes	Lecture	Written test
11	1	Social crimes	to identify Social crimes	Lecture	Written test
12	1	Militarization of society	To clarify a concept Militarization of society	Lecture	Written test
13	1	The Baath position on religion	to identify The Baath position on religion	Lecture	Written test
14	1	Violating Iraqi laws	To learn how Violating Iraqi laws	Lecture	Written test
15	1	Pictures of human rights violations	To learn about pictures Human rights violations	Lecture	Written test
16	1	Some decisions of political violations	To learn about some decisions Political violations	Lecture	Written test
17	1	Environmental crimes to the Baath regime	To identify crimes environment of the Baath regime	Lecture	Written test
18	1	Prison places And detention by the Baath regime	To know the locations of prisons And detention by the Baath regime	Lecture	Written test
19	1	Military pollution	To learn about military pollution	Lecture	Written test
20	1	Destruction of cities and villages	To learn about the destruction of cities and villages	Lecture	Written test
21	1	Drying the marshes	To learn about the effects of drying out marshes	Lecture	Written test

22	1	Dredging orchards	To learn about the effects of bulldozing orchards	Lecture	Written test
23	1	Mass graves	To identify mass graves	Lecture	Written test
24	1	Extermination cemeteries events	To learn about mass grave events	Lecture	Written test
25	1	Symbolic classification Extermination cemeteries	To learn about the classification Symbolic For extermination cemeteries	Lecture	Written test
26	1	View documents For crimes of genocide	To learn about the offer documents For crimes of genocide	Lecture	Written test
27	1	Display resolutions Criminal court	To learn about the offer Court decisions Criminal	Show pictures and video	View only
28	1	The accusations that Directed to Saddam and his aides	To learn about the accusations leveled against Saddam and his aides	Show pictures and video	View only
29	1	View documents Crime photographer	Watch and view Photographic documents of crimes	Show pictures and video	View only
30	1	View documents Crime photographer	Watch and view Photographic documents of crimes	Giving lecture	View only

11. Course Evaluation (Summative and Formative Assessment Methods)	Feedback method
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Summative assessment:	40% mid-year exam 60% final exam
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Formative assessment:	Quotes and discussions
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12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	The crimes of the Baath regime in Iraq
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Main references (sources)	Archives of the Political Prisoners Foundation
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Recommended books and references (scientific journals, reports...)	
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Electronic References, Websites	
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Course Description Form

University of Mosul

College of Medicine

Supporting Sciences Unit

1. Course Name:	
Computer science	
2. Course Code:	
MCCU208	
3. Semester / Year:	
First 2025 – 2026	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15 theoretical hours + 30 practical hours during the first semester / Number of units (2)	
7. Course administrator's name (mention all, if more than one name)	
Professor: Rukaya Zedan	rz@uomosul.edu.iq
Lecturer: Dr.Dhafar Fakhry Allayla	dhf@uomosul.edu.iq
Assistant Lecturer : Maha Abdulhadi Alani	maa@uomosul.edu.iq
Assistant Lecturer : Huda Saad Taher	huda.thher@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The course aims to teach computer science to second-year medical students. By the end of the course, students will be able to:</p> <p>Knowledge:</p> <p>K1. Describe the basic principles of computer networks and data security (KP4, KP8)</p> <p>K.2 Explain the concept and systems of e-commerce, technical problems and their components, and identify common computer problems and troubleshooting methods (KP3, KP4).</p> <p>K.3 Define the concept of artificial intelligence, its fields, and its applications in modern smartphones and health technologies, while analyzing future trends and ethical and societal challenges (KP4, KP7).</p> <p>Skills:</p> <p>S.1 Apply computer troubleshooting techniques, use network tools and electronic applications safely and effectively, and engage with e-commerce platforms and conduct digital transactions securely (PC3, PC4, PC1, PC9).</p> <p>S.2 Employ artificial intelligence applications and tools in their academic or medical fields of study, with the ability to evaluate the benefits and risks associated with these technologies from a professional and ethical perspective (PC2,PC3).</p> <p>Attitude::</p> <p>A.1. Demonstrate ethical awareness and professional responsibility in the use of technology and digital resources, appreciate the importance of information security and digital privacy protection, while adhering to the principle of continuous learning and adapting to modern technological developments (EWT1, EWT2, EWT4).</p>

A.2. Foster a spirit of collaboration and problem-solving within work teams, and develop a positive critical outlook on the role of artificial intelligence in society and the healthcare sector (EWT3, EWT4).

9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • Theoretical Lectures • Laboratory application and practical use of computers to apply the course material, solve exercises and assignments, and discuss. • Demonstrative videos
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-2	2	Understand the basics of computer networks, including their types and structure. Protect networks and the threats they face.	Security and Networking	Theoretical and practical lecture	Short essay OR MCQs
3	1	Understanding the basics of e-commerce.	E-Commerce	Theoretical and practical lecture	Short essay OR MCQs
4-5	2	Troubleshooting computer problems. Types of problems (hardware, software, and network). Finding solutions to computer problems and implementing them in the lab.	Computer Troubleshooting	Theoretical and practical lecture	Short essay or MCQs or exercises
6-7	2	Understand the Fundamentals of AI, Recognize Applications of AI.	Introduction to AI	Theoretical and practical lecture	Short essay or MCQs or exercises
8-9	2	Understand the Integration of AI in Smartphones, understand how artificial intelligence technologies are embedded in modern smartphone hardware and software.	The Role of AI in Modern Smartphones	Theoretical and practical lecture	Short essay or MCQs or exercises
10-12	3	Understand the Scope of AI Applications, areas where AI is applied, Apply AI Tools for Basic Problem Solving.	Application and Tools of AI	Theoretical and practical lecture	Short essay or MCQs or exercises
13	1	Understand the Social Impact of AI. The impact of artificial intelligence technologies on social, economic, cultural, and political systems.	AI and Society	Theoretical and practical lecture	Short essay or MCQs or exercises

14	1	Understanding basic principles such as fairness, accountability, transparency, and privacy in the context of AI systems. Evaluate Ethical and Social Implications	Ethical Challenges in AI	Theoretical and practical lecture	Short essay or MCQs or exercises
15	1	the latest advancements in AI technologies. the latest advancements in AI technologies	The Future of AI	Theoretical and practical lecture	Short essay or MCQs or exercises

11. Course Evaluation

- 10 % Practical Exam
- 20 % Midterm Exam (Theory)
- 70 % Final Exam (Theory)

Total: 100 points

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1-Computer skills windows 10 (Hardware and Software) By Prof. Dr. Mohamed Bilal Al Zoubi, Prof. Dr. Ahmed Al-Sharia University of Jordan
Main references (sources)	1. Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technology In Action Complete", 16th Edition (2020). 2. Ahmed Banafa, "Introduction to Artificial Intelligence (AI)", 1st Edition (2024). 3. الدكتور عادل عبد النور, "مدخل الى عالم الذكاء الاصطناعي" 2005
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	1- https://www.ibm.com/think/topics/artificial-intelligence-medicine 2- https://scholar.google.com/scholar?q=Introduction+to+Artificial+Intelligence+PDF&hl=ar&as_sdt=0&as_vis=1&oi=scholar 3- https://edu.gcfglobal.org/en/computerbasics/basic-troubleshooting-techniques/1/ 4- https://sell.amazon.com/learn/what-is-ecommerce

Course Description Form

University of Mosul

College of Medicine

Department of Pharmacology

1. Course Name:	
Pharmacology	
2. Course Code:	
MCph 301	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
30/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total =150 hours (90 theoretical, 60 practical)/ 8 Units	
7. Course administrator's name	
Prof. Imad AJ. Thanoon	iat@uomosul.edu.iq
Asst. Prof. Shamil H. Othman	sho@uomosul.edu.iq
Asst. prof. Ibrahim M. Faisal	ibrahim.faisal1977@uomosul.edu.iq
Asst. Prof. Shatha H. Mohammed	shm@uomosul.edu.iq
Lecturer. Nada S. Mahmood	nadasm79.nm@uomosul.edu.iq
Asst. Lecturer. Omar M. Yaseen	omy@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The primary goal of this course is to provide students with foundational knowledge of Pharmacology which is the science of drugs and to integrate this knowledge with clinical sciences. By the end of this course the student will be able to:</p> <p>Knowledge:</p> <p>K1. Demonstrate the basic principles of pharmacology, including pharmacokinetics (absorption, distribution, metabolism, and excretion) and pharmacodynamics (mechanisms of drug action and dose–response relationships), (KP1, KP3, KP4)</p> <p>K2. Identify the classification, mechanism of action, therapeutic uses, adverse effects, and contraindications of major drug groups used in medical practice, (KP1, KP3, KP4, KP5, KP6, KP8).</p> <p>K3. Explain the relationship between drug concentration and clinical response, including factors affecting efficacy and safety, (KP1, KP3, KP4, KP6).</p>

	<p>Skill:</p> <p>S1. Select appropriate drugs for specific diseases based on efficacy, safety, and cost, (CSP1, CSP5, CSP6, ETW1, ETW4).</p> <p>S2. Calculate correct drug dosages and adjust doses according to patient factors (age, weight, renal or hepatic impairment), (CSP1, CSP4, CSP6, ETW1, ETW3).</p> <p>S3. Interpret prescriptions, recognize errors, and suggest corrections, (CSP1, CSP5, CSP6, ETW1, ETW3).</p> <p>Attitude:</p> <p>A1. Develop a sense of professional responsibility in prescribing and using drugs safely and ethically, (ETW1, ETW2, ETW3).</p> <p>A2. Show awareness of patient safety and the importance of minimizing medication errors, (CSP6).</p> <p>A3. Demonstrate respect for ethical principles in drug research, animal experimentation, and clinical trials, (ETW1, ETW2).</p>
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9. Teaching and Learning Strategies

Strategy	<ol style="list-style-type: none"> 1. large group teaching: (theoretical lectures) 3 lectures / week 2. Team-based learning sessions. 3. Practical laboratory sessions: The students are divided into small groups each of 10-15 students.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Subject Name	Learning method	Evaluation method
1 - 2	6	Explain the principles of drug therapy by integrating pharmacokinetic processes, drug–receptor interactions, and pharmacodynamics mechanisms to understand how drugs produce therapeutic and adverse effects in the body	Principles of Drug Therapy: Pharmacokinetic, Drug–Receptor Interactions and Pharmacodynamics	Theoretical Lecture And practical lab	Short assay OR MCQs + Practical exam
3-6	12	Describe pharmacological actions, mechanisms, and therapeutic applications of cholinergic and adrenergic agonists and antagonists, and explain their effects on the autonomic nervous system.	The Autonomic Nervous: Cholinergic Agonists, and Antagonists. Adrenergic Agonists and Antagonists.	Theoretical Lecture And practical lab	Short assay OR MCQs + Practical exam
7-9	9	Explain the mechanisms of action, therapeutic uses, and adverse effects of major drugs acting on CNS like anxiolytics, sedatives, hypnotics, antidepressants, antiparkinsonian agents,	The Central Nervous System Anxiolytics, Sedatives, Hypnotics, Antidepressants, Antiparkinsonians,	Theoretical Lecture And practical lab	Short assay OR MCQs + Practical exam

		antiepileptics, and anesthetics.	Antiepileptics, Local and General anesthetics		
10, 11	6	Describe the physiological roles, mechanisms of action, and pharmacological modulation of histamine and serotonin, including their agonists, antagonists, and therapeutic applications.	Autacoids: Histamine and Serotonin	Theoretical Lecture And practical lab	Short assay OR MCQs + Practical exam
12, 13	6	Explain the mechanisms of action, therapeutic uses, and adverse effects of NSAIDs, narcotic analgesics, and drugs used in the treatment of migraine and gout.	NSAIDs, Narcotic analgesics and Drugs for Migraine and Gout	Theoretical Lecture And practical lab	Short assay OR MCQs + Practical exam
14	3	Describe the mechanisms of action, therapeutic uses, and adverse effects of drugs used in the treatment of cough and bronchial asthma.	Drugs for Cough and Asthma	Theoretical Lecture And practical lab	Short assay OR MCQs + Practical exam
15-17	9	Explain the mechanisms of action, therapeutic uses, and adverse effects of drugs used in the management of gastrointestinal disorders, including antiemetics, and agents for peptic ulcer, irritable bowel syndrome, inflammatory bowel diseases, constipation, and diarrhea.	GIT Drugs Antiemetics, Drugs for Peptic ulcer, IBS, Crohn's disease, Ulcerative colitis Constipation and Diarrhea	Theoretical Lecture And practical lab	Short assay OR MCQs + Practical exam
18-21	12	Identify the clinical indications of diuretics in the management of hypertension, heart failure, and edema. Classify the drugs used in CHF (e.g., ACE inhibitors, beta-blockers, diuretics, aldosterone antagonists, ARNIs). Monitor therapy using INR, aPTT, and understand reversal strategies. Evaluate efficacy, adverse effects, and bleeding risk.	CVS Drugs Diuretic Agents, Drugs for Hypertension, CHF and Angina Antiarrhythmic Agents, Anticoagulants and Antiplatelets	Theoretical Lecture And practical lab	Short assay OR MCQs + Practical exam

22-25	12	<p>Analyse the basic principles of antimicrobial therapy, including: Spectrum of activity (broad vs. narrow) Bactericidal vs. bacteriostatic action Mechanisms of resistance Empirical vs. definitive therapy</p> <p>Explain the factors influencing the choice of antimicrobials: Site and severity of infection Susceptibility of organisms Patient-specific factors (e.g., allergies, renal/hepatic function) Describe the importance of rational antibiotic use and antimicrobial stewardship.</p>	<p>Principles of Antimicrobial Therapy Penicillins, Cephalosporins, Sulphonamide, Erythromycin, Tetracyclines, Clindamycin, Aminoglycosides, Metronidazole, Fusidic Acid, Chloramphenicol, Antivirals, Antifungals</p>	<p>Theoretical Lecture And practical lab</p>	<p>Short assay OR MCQs + Practical exam</p>
26-28	9	<p>Classify steroid hormones (glucocorticoids, mineralocorticoids, and sex steroids). Differentiate between combined oral contraceptives, progestin-only contraceptives, and emergency contraception. Differentiate between Type 1 and Type 2 diabetes mellitus in terms of pathophysiology and management. Describe the synthesis, secretion, and regulation of thyroid hormones.</p>	<p>Hormones Steroids and Contraceptives, Drugs for Diabetes Mellitus, Thyroid and Antithyroid Drugs</p>	<p>Theoretical Lecture And practical lab</p>	<p>Short assay OR MCQs + Practical exam</p>
29-30	6	<p>Define hyperlipidemia and describe the types of lipoproteins and their physiological roles. Explain the mechanism of action, pharmacokinetics, and pharmacological effects of each class of antihyperlipidemics Identify the therapeutic indications,</p>	<p>Drugs for Hyperlipidemia and Obesity</p>	<p>Theoretical Lecture And practical lab</p>	<p>Short assay OR MCQs + Practical exam</p>

		contraindications, and adverse effects of antihyperlipidemic drugs. Discuss drug interactions and precautions related to lipid-lowering therapy. treatment of obesity.			
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11. Course Evaluation

1. 10% mid-year practical exam
2. 30% mid-year exam
3. 10% final practical exam
4. 50% final exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Whalen K, Pharmacology (Lippincott® Illustrated Reviews: Pharmacology), 8th ed. (2023). 2. Bertram G. Katzung, Todd W., Basic & Clinical Pharmacology, 15th ed. (2024).
Main references (sources)	Whalen K, Pharmacology (Lippincott® Illustrated Reviews: Pharmacology), 8th ed. (2023).
Recommended books and references (scientific journals, reports...)	Goodman and Gilman's, The Pharmacological Basis of Therapeutics, 14th ed. (2022).
Electronic References, Websites	Pubmed, Google classroom platform

Course Description Form

Department of Microbiology

1. Course Name:	
Bacteriology	
2. Course Code:	
MCMi302	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
150 Hours/ 8 Units (90 hours theoretical, 60 hour practical)	
7. Course administrator's name (mention all, if more than one name)	
Assistant Prof. Dr. Firas Mohammad Dawood	Firasmohdaw@uomosul.edu.iq
Assistant Prof. Dr. Ikram Khazal Al-Hasso	ikramhassow@uomosul.edu.iq
Assistant Prof. Dr. Kawkab Idrees	kawkabidrees@uomosul.edu.iq
Lecturer Dr. Asmaa Zeki Shetawi	asmaasheetawi@uomosul.edu.iq
Lecturer Dr. Ahmed Mohammad Hayawi	ahmadhay@uomosul.edu.iq
Lecturer Dr. Ansam Mohammad Hamdoon	ansamhamdoon@uomosul.edu.iq
Lecturer Dr. Ahmed Abdullah Ahmed	ahmabdahmad@uomosul.edu.iq
Lecturer Dr. Zeena Makki Abdul-kareem	Zeenayoubaki@uomosul.edu.iq
Lecturer Dr. Saeed Hamees Hussien	Saeedhameed@uomosul.edu.iq
Lecturer Dr. Khalid Waleed Turkey	Khwaleedturk@uomosul.edu.iq
Assistant lecturer Niaam Basheer Yahya	Niam.basher@uomosul.edu.iq
Assistant lecturer Ruaa Ileas	Ruaa.shaaya@uomsoul.edu.iq
Assistant lecturer Waleed Khalid Sadoon	walkhsaadoon@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>This course aims to provide students with adequate information and training in Medical Microbiology, concept of communicable diseases their causes, and methods of diagnosis, treatment and prevention. At the end of this course, the students should be able to:</p> <p>Knowledge:</p> <p>K1: Formulate the medical students with the basics of medical microbiology regarding types, classification, structure and composition of pathological and commensal bacteria, viruses and fungi: their causes, methods of diagnosis, treatment and prevention (KP1, KP3, KP5, KP7),</p> <p>K2: Demonstrate the basic principles of medical immunology and immune response during infectious and noninfectious diseases, immune deficiencies and autoimmune diseases (KP1, KP3)</p> <p>Skills</p> <p>S1: Develop the practical skills necessary for diagnosing bacterial, viral and fungal diseases regarding microscopy, culture techniques, immunological, serological and molecular tests (PC3, PC5)</p>

	<p>S2. Assess and interpret various laboratory tests for identifying and diagnosing different types of bacteria, viruses and fungi (PC3).</p> <p>S3. Implement a formula for choosing the most appropriate laboratory tests for the pathogen and evaluating clinical samples suspected to be infected with microbes (PC3, PC5).</p> <p>Attitude</p> <p>A1. Examine ethical problems in relation to the topics and act accordingly (ETW1)</p> <p>A2. Honesty with other medical personals in field of medical microbiology to contribute actively in diagnosing, treating and preventing infections (ETW3)</p>
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9. Teaching and Learning Strategies

Strategy	<ol style="list-style-type: none"> 1. Theoretical Lectures 2. Practical labs or clinical sessions, small groups teaching and discussion 3. Seminars, presentations, reports and posters 4. e-learning
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1 - 23	46 + 44	<ol style="list-style-type: none"> 1. Define main microbiological terms 2. Explain the types, virulence factors and infections by (<i>Gram⁺ cocci, Gram⁻ cocci, spore and non-spore forming Gram⁺ bacilli and anaerobic bacilli</i>) 3. Analyze the mechanism of action of antimicrobials 4. Explain and Demonstrate types, virulence factors, and diseases caused by Enterobacteriaceae, Pseudomonas, Vibrionaceae, coccobacilli, and atypical bacteria. 	Bacteriology	Theoretical lectures + Lab. Demonstration	Written exam (Essay and or MCQ) questions + Practical examination
3 - 20	18+6	<ol style="list-style-type: none"> 1. Identify the innate immunity, adaptive immunity and their elements 2. Identify complement system 3. Differentiate the types of immunization, HSR, immune deficiencies, tolerance and autoimmunity 	Immunology	Theoretical lectures + Lab. demonstration	Written exam (Essay and or MCQ) questions + Practical examination

		<p>4. Explain the blood transfusion and transplant immunology</p> <p>5. Demonstrate tumor immunology</p> <p>6. Identify Systemic inflammation, acute phase proteins and cytokines</p>			
13- 30	18+4	<p>1. Explain some terminology in virology</p> <p>2. Define structures of viruses</p> <p>3. Identify the types of viral replication and methods of diagnosis of viral infections</p> <p>4. Analyze the types, virulence factors and diseases caused by Parvo and Paplioma viruses, Adeno viruses, Herpes viruses , Pox viruses, Picorna viruses, Rhabdo viruses, Corona, Orthomyxo viruses and Paramyxoviruses, Hemorrhagic fever viruses and Arbo viruses</p>	Virology	Theoretical lectures + Lab. demonstration	Written exam (Essay and or MCQ) questions + Practical examination
26-29	8+6	Know Types, virulence factors and diseases caused by fungi including superficial mycosis, cutaneous and subcutaneous mycosis, systemic and opportunistic mycosis	Mycology	Theoretical lectures + Lab. demonstration	Written exam (Essay and or MCQ) questions + Practical examination

11. Course evaluation

1. Theory examination (75 marks)

- a. Midyear examination: 25 marks
- b. Final year examination 50 marks

2. Practical examination (25 marks)

- a. 1st course examination: 10 marks (Stations-based exam)
- b. 2nd course examination: 10 marks (Stations-based examination)
- c. Annual activity : 5 marks

- i. Quizzes including unannounced quizzes
- ii. Log book
- iii. Reports
- iv. Posters
- v. Seminars

Total marks: 100%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Medical Microbiology by Jawetz, Melnick, & Adelberg's, Last edition
Main references (sources)	1. Connie R Mahon Doland C Lehman Text book diagnostic microbiology ,last edition 2. Roitts Essential Immunology, Last edition
Recommended books and references (scientific journals, reports...)	1. Review of Medical Microbiology and Immunology by Warren E. Levinson, Last edition 2. Immunology by Murphy, Kenneth and Casey, last edition
Electronic References, Websites	1. World health organization. 2. CDC.gov.

Course Description Form

Department of Microbiology

1. Course Name:	
Parasitology	
2. Course Code:	
MCMi303	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
120 Hours/ 6 Units	
7. Course administrator's name (mention all, if more than one name)	
Assistant Prof. Dr. Firas Mohammad Dawood	Firasmohdaw@uomosul.edu.iq
Assistant Prof. Dr. Ikram Khazal Al-Hasso	ikramhassow@uomosul.edu.iq
Assistant Prof. Dr. Kawkab Idrees	kawkabidrees@uomosul.edu.iq
Lecturer Dr. Asmaa Zeki Shetawi	asmaasheetawi@uomosul.edu.iq
Lecturer Dr. Ahmed Mohammad Hayawi	ahmadhay@uomosul.edu.iq
Lecturer Dr. Ansam Mohammad Hamdoon	ansamhamdoon@uomosul.edu.iq
Lecturer Dr. Ahmed Abdullah Ahmed	ahmabdahmad@uomosul.edu.iq
Lecturer Dr. Zeena Makki Abdul-kareem	Zeenayouzbaki@uomosul.edu.iq
Lecturer Dr. Saeed Hamees Hussien	Saeedhameed@uomosul.edu.iq
Lecturer Dr. Khalid Waleed Turkey	Khwaleedturk@uomosul.edu.iq
Assistant lecturer Niaam Basheer Yahya	Niam.basher@uomosul.edu.iq
Assistant lecturer Ruaa Ileafs	Ruaa.shaaya@uomsoul.edu.iq
Assistant lecturer Waleed Khalid Sadoon	walkhsaadoon@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>This course aims to provide students with adequate information and training in 'Medical Parasitology', concept of parasitic diseases, their causes, and methods of diagnosis, treatment and prevention. At the end of this course, the students should be able to:</p> <p>Knowledge: K1: Formulate with the basics of medical Parasitology regarding types, classification, structure and morphology of different parasites, their causes, methods of diagnosis, treatment and prevention (KP1, KP3, KP7).</p> <p>Skills S1: Develop the practical skills necessary for diagnosing parasites regarding microscopy, culture techniques, immunological, serological and molecular tests (PC3, PC5) S2. Assess and interpret various laboratory tests for identifying and diagnosing different types of parasites and determining an appropriate method for examining and evaluating clinical samples suspected to be infected with microbes (PC3).</p> <p>Attitude</p>

	A1. Examine ethical problems in relation to the topics and act accordingly (ETW1) A2. Honesty with other medical personals in field of medical microbiology to contribute actively in diagnosing, treating and preventing infections (ETW3)
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9. Teaching and Learning Strategies

Strategy	<ol style="list-style-type: none"> 1. Theoretical Lectures 2. Practical labs or clinical sessions, small groups teaching and discussion 3. Seminars, presentations, reports and posters 4. e-learning
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-8	16 + 16	<ol style="list-style-type: none"> 1. Define main terminology in medical parasitology 2. Explain the pathogenic and nonpathogenic non-flagellated protozoa and studying their morphology, life cycles, pathogenesis and diseases caused by them 3. Analyze the mechanism of action of antiprotozoal drugs 4. Present the methods of prevention and controls 	Flagellated and non-flagellated protozoa	Theoretical lectures + Lab. Demonstration	Written exam (Essay and or MCQ) questions + Practical examination
9-11	6+6	<ol style="list-style-type: none"> 1. Describe and studying the morphology of plasmodium spp., life cycles, pathogenesis and diseases caused by them 2. Analyze the mechanism of action of antimalarial drugs 3. List the available vaccines against plasmodium spp. 4. Present the methods of prevention and controls 	Malaria (Plasmodium spp.)	Theoretical lectures + Lab. Demonstration	Written exam (Essay and or MCQ) questions + Practical examination

12-14	6+6	<p>1. Describe and studying the morphology of blood flukes (Schistosomas) and foodborne flukes (Fasciola), their life cycles, pathogenesis and diseases caused by them</p> <p>2. identify the methods of prevention and controls</p>	Trematodes (Blood and foodborne flukes)	Theoretical lectures + Lab. Demonstration	Written exam (Essay and or MCQ) questions + Practical examination
15-21	14+14	<p>1. Describe and studying the morphology of different nematodes, their life cycles, pathogenesis and diseases caused by them</p> <p>2. identify the methods of prevention and controls</p>	Nematodes	Theoretical lectures + Lab. Demonstration	Written exam (Essay and or MCQ) questions + Practical examination
22-23	4+4	<p>1. Describe and studying the morphology of different cestodes, their life cycles, pathogenesis and diseases caused by them</p> <p>2. Identify the methods of prevention and controls</p>	Cestodes	Theoretical lectures + Lab. Demonstration	Written exam (Essay and or MCQ) questions + Practical examination
24	2+2	<p>1. Define immune response to parasitic infections</p>	Immune response to parasitic infections	Theoretical lectures + Lab. Demonstration	Written exam (Essay and or MCQ) questions + Practical examination
25-29	10+10	<p>1. Identify clinically important flies, fleas,, ticks, mites and Lice, their life cycles, mode of transmission, clinical diseases caused by them</p> <p>2. Explain the methods of prevention and control of diseases caused by theses ticks and mites.</p>	Insect borne parasitic infections	Theoretical lectures + Lab. Demonstration	Written exam (Essay and or MCQ) questions + Practical examination

30	2+2	1. Explain the diagnostic methods in Parasitology	Diagnostic Methods in Parasitology	Theoretical lectures + Lab. Demonstration	Written exam (Essay and or MCQ) questions + Practical examination
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11. Course evaluation

1. Theory examination (75 marks)
 - a. Midyear examination: 25 marks
 - b. Final year examination 50 marks
 2. Practical examination (25 marks)
 - a. 1st course examination: 10 marks (Stations-based exam)
 - b. 2nd course examination: 10 marks (Stations-based examination)
 - c. Annual activity : 5 marks
 - i. Quizzes including unannounced quizzes
 - ii. Log book
 - iii. Reports
 - iv. Posters
 - v. Seminars
- Total marks: 100%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Jawetz Milnek & Aldelbergs medical microbiology 23th edition. 2. Zeibig A. Elizabeth, 2013, Clinical parasitology, USA, Elsevier
Main references (sources)	1. Burton J. Bogitsh, Clint E. Carter, and Thomas N. Oeltmann, 2013, Human parasitology 4th edition, USA and UK, Elsevier. 2. Rohela Mahmud · Yvonne Ai Lian Lim Amirah Amir 2017, Medical Parasitology: A Textbook. Springer International Publishing AG 2017
Recommended books and references (scientific journals, reports...)	Trends in Parasitology journal. Parasitology journal
Electronic References, Websites	1. World health organization. 2. CDC.gov.

Course Description Form

University of Mosul

College of Medicine

Department of Pathology & Forensic Medicine

1. Course Name:	
Pathology	
2. Course Code:	
MCPa304	
3. Semester / Year:	
1 st and 2 nd Semester /2025-2026	
4. Description Preparation Date:	
7/8/2025	
5. Available Attendance Forms:	
Register attendance in person (Attendance)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical Hours: 120 hours, Practical Hours: 120 hours. Total: 240 hours Number of Units: 12	
7. Course administrator's name (mention all, if more than one name)	
Prof. Dr. Wahda Mohammed Tayeb Al-Nuaimi	wmt@uomosul.edu.iq
Prof. Dr. Muna Abdulbasit Kashmoola	mak@uomosul.edu.iq
Assistant Professor Dr. Nadwa Subhi Mustafa	nsm@uomosul.edu.iq
Assistant Professor Dr. Zahraa Marwan Shaaban	zahraamarwan@uomosul.edu.iq
Assistant Professor Dr. Khaled Wissam Abdul Fattah	kha@uomosul.edu.iq
Assistant Professor Dr. Banan Burhan Mohammed	bbm@uomosul.edu.iq
Lecturer Dr. Mustafa Salah Fadhil	mustafafadhil@uomosul.edu.iq
Lecturer Dr. Morooj Saleh Mohammed	dr.morooj.mohammed@uomosul.edu.iq
Lecturer Dr. Ali Nazar Majeed Qibi	aliqibi@uomosul.edu.iq
Lecturer Dr. Samar Saleh Saadi	smr@uomosul.edu.iq
Lecturer Dr. Karam Turath Tawfeeq Agha	kta@uomosul.edu.iq
Lecturer Elaf Abdulwahhab Hamdi	ela@uomosul.edu.iq
Lecturer Dr. Maryam Faris Saleh	maryam.salih@uomosul.edu.iq
Assistant Lecturer Wafaa Sabri Eid	wafaa.albawei@uomosul.edu.iq
Assistant Lecturer Liqqa Khalel Othman	liqqakhalelalhyali@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The aim of the course is to provide third-year medical students with fundamental knowledge and a deep understanding of the principles of Pathology. It also seeks to enhance their ability to analyze and interpret pathological changes at the cellular and tissue levels, linking them to clinical contexts. Furthermore, the course is designed to foster students' skills in self-directed learning, critical thinking, and teamwork.</p> <p>By the end of the course, the student will be able to:</p> <p>Knowledge outcomes:</p> <p>K1 -Understands the fundamental mechanisms of disease — including cell injury, inflammation, necrosis, repair, neoplasia, and hematological alterations — and explains their etiology, molecular basis, and morphological features at both the gross and microscopic levels. (KP1)</p>

K2 -Differentiates and interprets pathological changes across major body systems and the blood, including circulatory, infectious, immunological, genetic, degenerative, and neoplastic disorders, while identifying their clinical significance and systemic correlations. **(KP1, KP3, KP6)**

K3 -Correlates pathological findings with clinical, laboratory, and radiological data to form diagnostic interpretations, evaluate disease progression, and support evidence-based medical decisions grounded in ethical and scientific principles. **(KP1, KP4, KP8)**

Skill outcomes:

S1- Collects and interprets pathological data by reviewing clinical information and correlating it with gross and microscopic findings to identify disease patterns and establish accurate preliminary diagnoses. (PC1, PC2, PC3)

S2- Integrates clinical, laboratory, and histopathological results to formulate differential diagnoses and propose suitable treatment plans according to lesion type and location.(PC2, PC4, PC5, PC7)

S3- Communicates effectively and collaborates within medical teams, presenting pathological findings clearly in oral and written forms, and linking theoretical knowledge with practical applications through laboratory and case discussions.(CSP1, CSP5, CSP6)

Attitude outcomes

A1- Adheres to ethical and professional principles in studying and diagnosing pathological cases, ensuring respect for patient privacy, confidentiality, and fairness in evaluation. (ETW1, ETW2)

A2- Demonstrates empathy, respect, and teamwork, maintaining professional conduct with colleagues, engaging effectively in group discussions, and showing cultural and social awareness in patient care. (CSP2, CSP4, ETW3)

A3- Commits to self-directed and lifelong learning, accepting feedback, improving diagnostic performance, and maintaining responsibility toward patients and society through evidence-based and unbiased practice. (ETW4, ETW1, CSP5)

9. Teaching and Learning Strategies

- | | |
|-----------------|--|
| Strategy | <ol style="list-style-type: none"> 1. Theoretical Lectures. 2. Practical Sessions 3. Discussion Sessions 4. Seminars and Presentations 5. E-Learning |
|-----------------|--|

10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-12	90	Understanding the fundamental definition of pathology and the general mechanisms of disease such as cell injury, inflammation, tissue repair, hemodynamic disorders, immune pathology, genetic diseases, and tumors, along with acquiring analytical and practical skills to correlate pathological changes with clinical manifestations and to accurately use medical terminology.	General Pathology	Theoretical lectures and Practical sessions	Quizzes, Practical Exams, Midterm Exam, Final Exam
13-30	150	Understanding the pathological changes in different body systems (respiratory, digestive, nervous, circulatory, etc.) and linking them to pathological mechanisms, clinical manifestations, and diagnostic features. Acquiring analytical and practical skills to identify histopathological slides, correlate laboratory and imaging findings with pathological changes, and accurately use medical terminology.	Systematic Pathology	Theoretical lectures and Practical sessions	Quizzes, Practical Exams, Midterm Exam, Final Exam

11. Course Evaluation

1. Practical Daily Quizzes (for both first and second semesters): **5%**
2. First semester practical exam: **10%**
3. Mid-year theoretical exam: **20%**
4. Second semester practical exam: **15%**
5. Final theoretical exam: **50%**

12. Learning and Teaching Resources	
Required textbooks (curricular books,if any)	-Robbins basic pathology 11 th edition
Main references (sources)	-Robbins basic pathology 11 th edition
Recommended books and references (scientific journals, reports...)	-Text book of pathology By Muir's -Thompson & Thompson, GENETICS IN MEDICINE. Seventh Edition. 2007. Saunders Elsevier Inc. - Emery's elements of medical genetics. 2017. 15th ed. Elsevier
Electronic References, Websites	6. https://www.pathologyoutlines.com/ 7. https://webpath.med.utah.edu/

Course Description Form

University of Mosul

College of Medicine

Department of Family & Community Medicine

1. Course Name:	
Community Medicine	
2. Course Code:	
MCCo305	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 Hours/ 3 Units	
7. Course administrator's name (mention all, if more than one name)	
Assist. Prof. Dr. Waleed Ghamen	wga@uomosul.edu.iq
Lecturer Dr. Nuha Hachim	drnuhah@uomosul.edu.iq
Assist. Lec. Firas Mahmood	fms@uomosul.edu.iq
Assist. Lec. Layla Hadi	layla.hadi@uomosul.edu.iq
Assist. Lec. Fraha Haitham	farah.haitham@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>This course aims to provide students with adequate information and training in healthy nutrition, communication skills and medical statistics, where students at the of this course will be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate the nutritional needs of specific patient populations, effective communication skills essential for medical practice and importance of understanding medical statistics (KP1). 2. Identify common nutrient deficiencies, toxicities and barriers against effective communication skills in addition to identify common statistical tests. (KP1). 3. Counsel a patient on basic dietary changes for disease management and prevention. (KP1). 4. Apply appropriate strategies to communicate effectively with patients in general and special medical contexts. (KP1). 5. Recognize best statistical test needed and its limitations. (KP1). <p>So that they will be able to properly understand these sciences and their applications when practicing medicine and conducting health and medical researches.</p>
9. Teaching and Learning Strategies	
Strategy	<p>Theoretical Lectures Small group discussion in practice</p>

10. Course Structure

Week	Hours	Required Learning Outcomes	subject	Learning method	Evaluation method
1-11	11	<ol style="list-style-type: none"> 1. Define nutrition and diet therapy in relation to age. 2. Recognize the important food constituents and its recommended daily allowance. 3. Describe eating related disorders and diseases. 4. Construct a healthy dietary regimen in relation to age. 5. Apply nutritional plans for management of nutritional disorders. 	Nutrition	lectures	Short assay OR MCQs
12-15	4	<ol style="list-style-type: none"> 1. Define communication skills within the context of medical practice. 2. Explain the importance of communication skills in the daily life of a doctor. 3. Analyze the impact of effective communication on patient outcomes and the wider community. 4. Demonstrate application of core and advanced communication strategies to overcome barriers. <p>Differentiate between disease-centered and person-centered communication approaches with practical examples.</p>	Communication skills	Lectures	Short assay OR MCQs
15-30	45	<ol style="list-style-type: none"> 1. Identify the types of statistical measures. 2. Determine the general roles in using each statistical test. 3. Differentiate between the types of statistical tests. 4. Practice the use of statistical tests in different conditions. 5. Plot the shapes of data presentation. 6. Indicate the burden of diseases 	Medical statistics	Lectures & practice	Short assay or MCQs or exercises

11. Course Evaluation

30% mid-year examination
10% 2nd course practical examination

60% final year examination

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Park textbook of Preventive and Social Medicine. 2. Lecture notes on Medical statistics.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	1. Oxford handbook of nutrition and dietetics. 2. Oxford handbook of Medical statistics.
Electronic References, Websites	www. Who.org

Course Description Form

University of Mosul

College of Medicine

Department of medicine

1. Course Name:	
Medicine	
2. Course Code:	
MCMd306	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
22/10/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total credit hours = 120 (Theoretical hours: 60 hrs./Practical hours: 60 hrs.) Total Units:	
7. Course administrator's name (mention all, if more than one name)	
prof. Arwa Mahmood	arwamf.alsarraf@uomosul.edu.iq
Prof. Khalid nafea	khalid_kheroo@uomosul.edu.iq
Prof. Fakhir yousif	fakhiryousif1960@uomosul.edu.iq
prof. Rami Mohammed	ramiadil1966@uomosul.edu.iq
prof. Ali Abdulrahman	ali.younis7622@uomosul.edu.iq
prof. Mohammed Harith	mohammedharith11@uomosul.edu.iq
prof. Yahya Qasim	Yahyaqasim@uomosul.edu.iq
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Dr. Abdullah Zuhair	abdullah_alyyoubzaki@uomosul.edu.iq
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Dr. Mohammed Ganim	mohammed.kasim@uomosul.edu.iq
Dr. Mohammed Ghazi	mohammedghazi@uomosul.edu.iq
Dr. Ahmad Mohammed	Ahmed.ameen@uomosul.edu.iq
Dr. Ali Samir	ali.sameer@uomosul.edu.iq
Dr. Zahraa Amer	Zahraarh84@uomosul.edu.iq
Dr. Omar Abdulmonem	omarabdulmonem@uomosul.edu.iq
Dr. Duaa Mohmmed	Duaa.mohammed@uomosul.edu.iq
Dr. Nawaf yahea	nawafymahmood@uomosul.edu.iq
Dr. Sara Hameed	sarahameed@uomosul.edu.iq
8. Course Objectives	
Course Objectives	The primary goal of this course is to provide students with the basic knowledge in medicine in order to build the clinical knowledge and clinical skills in the next years in diagnosis and treatment of the different medical conditions including the emergent conditions, so optimize the medical services to the society. By the end of this course the students will be able to: Knowledge:

K1. Demonstrate and apply knowledge regarding the underlying physiological and biochemical disturbances that lead to disease and relate these mechanisms to the clinical signs and symptoms observed in patients (KP1).

K2. Demonstrate and apply knowledge regarding the clinical and laboratory methods to diagnose medical diseases (KP3).

Skills

S1. Obtain a comprehensive and accurate medical history through effective patient communication and clinical interviewing skills (PC1).

S2. Perform complete physical examinations, including assessment of vital signs, and general, respiratory, cardiovascular, and abdominal systems, in a systematic and professional manner (PC1).

S3. Formulate sound differential diagnoses based on clinical data, patient history, and examination findings (PC2).

S4. Communicate clearly and effectively with patients and their relatives (CSP1)

S5. Demonstrate sensitivity and honesty in difficult conversations including violent patient and their relatives (CSP2).

Attitude

A1. Demonstrate a commitment to ethical principles during medical practice (ETW1)

A2. Recognize the importance of respect of the patient's dignity and privacy (ETW2)

9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • Theoretical lectures aim to provide basic knowledge to the students in different aspects of medicine. • Practical sessions at teaching hospitals. • Seminars at weekly basis • Skill labs hand on training
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-3	5	Rapport and trust with patients using professional communications Conduct focused and comprehensive history Use open and closed – ended questions Listen actively and respond empathetically to the patient	History taking	Theoretical lecture and clinical practice	Essay MCQ
4-6	5	Evaluate cardiac disease	Manifestation of cardiac disease	Theoretical lecture and clinical practice	ESSAY MCQ
7-9	5	Evaluate of chest pain	Chest pain	Theoretical lecture and clinical practice	ESSAY MCQ

10-12	5	Recognize common respiratory diseases	Manifestations of respiratory diseases	Theoretical lecture and clinical practice	ESSAY MCQ
13-15	5	Recognize common gastrointestinal diseases	Manifestations of gastrointestinal diseases, jaundice	Theoretical lecture and clinical practice	ESSAY MCQ
16-18	20	Assess patient nutrition and acid base balance	Electrolytes and Acid-Base Disorders, Nutritional diseases	Theoretical lectures	ESSAY MCQ
19-21	40	Manage infectious diseases	Fever, Infectious diseases	Theoretical lectures	ESSAY MCQ
22-24	10	Recognize edema and musculoskeletal disorders	Edema and ascites, Manifestations of musculoskeletal diseases	Theoretical lectures and clinical practice	ESSAY MCQ
25-27	20	Assessing blood and neurological diseases	Manifestation of blood disorders, Manifestations of neurological diseases, Immunology	Theoretical lectures	ESSAY MCQ
28-30	5	Diagnose endocrine disorders	Manifestations of endocrine diseases,	Theoretical lectures	ESSAY MCQ
11. Course Evaluation					
<ul style="list-style-type: none"> • Mid- year examination 20 marks (20%) • Final examination 60 marks (60%) • Practical course examination 20 marks (20%) 					
12. Learning and Teaching Resources					

Required textbooks (curricular books, if any)	
Required textbooks (curricular books, if any)	<ol style="list-style-type: none"> 1. Davidsons general practice of medicine 24th edition 2. Macleod's clinical examination 14th edition
Main references (sources)	College library
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	pubmed, uptodate

Course Description Form

University of Mosul

College of Medicine

Department of Surgery

1. Course Name:	
Surgery	
2. Course Code:	
MCSu307	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical hours / 2 units	
7. Course administrator's name (mention all, if more than one name)	
Dr. Obay Abdulaziz Edan	obayabdedaan@uomosul.edu.iq
Dr. Mohanad Al- Bakr	mohanadadnan86@uomosul.edu.iq
Dr. Muddather Abdulaziz	muddatherabdmoh@uomosul.edu.iq
Dr. Omer Saad	omar.mahmood@uomosul.edu.iq
Dr. Ali Hasan	ali.mohammad@uomosul.edu.iq
Dr. Dena Abdulghnii	denaabdulghanii@uomosul.edu.iq
Dr. Mohammed Enam	mohdewaje@uomosul.edu.iq
Dr. Zaid Shanshal	ziyadaashanshal@uomosul.edu.iq
Dr. Zaid Tarq	ziadtariqmahm@uomosul.edu.iq
Dr. Dalya Abdulkader	Dalyafalaki-radio@uomosul.edu.iq
Dr. Mohammed Atallha	mohattallahayy@uomosul.edu.iq
Dr. Moamar Abdulghafor	moamer.ibrahim@uomosul.edu.iq
Dr. Zahraa Marwan	zahraamarwan@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The primary goal of this course is to provide students with foundational knowledge of surgery for medical students. By the end of this course the students will be able to:</p> <p>Knowledge:</p> <p>K1: Demonstrate and apply the clinical knowledge related to the diagnosis and treatment of the different surgical diseases including elective and emergent conditions (KP1).</p> <p>K2: Develop an evidence-based pre-operative preparation plan for a patient undergoing a common elective or emergency surgical procedure (KP3).</p> <p>K3: Recognizing and theoretically managing urgent conditions, like acute abdomen, and trauma (KP5).</p> <p>Skills:</p> <p>S1: Gather, document, and effectively present essential and accurate information about patients and their conditions through a history-taking, physical examination (PC1).</p>

	<p>S2: Counsel a patient and their family on a common surgical procedure, including its indications, potential risks and benefits, and the expected recovery process, to obtain informed consent (PC3).</p> <p>S3: Communicate clearly & effectively with patients & their relatives, colleagues from a variety of health professions regarding a post-operative complication or unexpected outcome (PC4).</p> <p>Attitude:</p> <p>A1: Maintain patient confidentiality in all written and verbal case discussions and demonstrate the process of obtaining a valid, informed consent in a simulated setting (ETW1).</p> <p>A2: Maintaining patient dignity, especially in surgical settings (ETW2).</p> <p>A3: Demonstrate effective team-working & leadership skills (ETW3).</p>
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • large group teaching: (theoretical lectures) 2 lectures / week • Team-based learning sessions
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1	1	List the method of nutritional support for surgical patient. Explain the basics of IV fluids and electrolyte therapy in surgical patient.	Fluids and electrolytes.	Theoretical lectures	Short assay, Or MCQs
2-5	4	define shock and its types with the patho-physiological changes, Determine the classification of hemorrhage, clinical presentation and management. Explain the types of blood products, procedure of blood transfusion.	Shock, Hemorrhage, and Blood transfusion	Theoretical lectures	Short assay, Or MCQs
6-7	2	Recognize the main steps in trauma and disaster management.	Trauma and disaster surgery	Theoretical lectures	Short assay, Or MCQs
8-10	3	Recognize the stages of wound repair and types of scars. Recognize the classification of burn and its management.	Tissue repair and scars. Burn	Theoretical lectures	Short assay, Or MCQs
11-12	2	Recognize different types of skin lesions. Know the principle of wound management.	Skin & subcut. tissue. wound management.	Theoretical lectures	Short assay, Or MCQs

13-15	3	Recognize the different types of anesthesia and the main principles of pre and post-operative care. Identify physical arrangement of the operating room	care in the operative room, pre and post-operative care. Theatre layout.	Theoretical lectures	Short assay, Or MCQs
16-17	2	Recognize the main metabolic response to trauma in surgical pt.	Metabolic response to trauma	Theoretical lectures	Short assay, Or MCQs
18	1	Know the types of instrument sterilization and disinfection.	Sterilization & disinfection	Theoretical lectures	Short assay, Or MCQs
19-20	2	Know the main principles of vascular diseases and surgery	Vascular surgery	Theoretical lectures	Short assay, Or MCQs
21	1	Highlight the basis of tissue & molecular diagnosis	Tissue & molecular Dx	Theoretical lectures	Short assay, Or MCQs
22	1	Describe the new techniques of diagnosis and treatment in surgery.	Basic surgical skills	Theoretical lectures	Short assay, Or MCQs
23-24	2	Explain different types of surgical and tropical infections, their diagnosis & management.	Surgical & tropical infections	Theoretical lectures	Short assay, Or MCQs
25-26	2	Understand the ethical aspect and patient safety in surgery	Surgical ethics and patient safety	Theoretical lectures	Short assay, Or MCQs
27	1	Understand the basics of day case surgery	Day case surgery	Theoretical lectures	Short assay, Or MCQs
28	1	List main surgical drains, indications & complications	Surgical drains	Theoretical lectures	Short assay, Or MCQs
29	1	Discuss the indications, preparations and procedure of endoscope.	GIT endoscopy	Theoretical lectures	Short assay, Or MCQs
30	1	Discuss imaging modalities & findings in different surgical conditions.	Surgical imaging	Theoretical lectures	Short assay, Or MCQs

11. Course Evaluation

Midyear exam 30 marks (30%)

Final exam 70 marks (70%)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<i>Bailey & Love`s Short practice of surgery 28th edition</i> CRC Press, Taylor & Francis Group 2023
Main references (sources)	
Recommended books and references (scientific journals, reports...)	<i>Browse's Introduction to the Symptoms & Signs of Surgical Disease 6th edition ,2021</i>
Electronic References, Websites	<ol style="list-style-type: none"> 1. Up to date www.uptodate.com 2. PubMed https://pubmed.ncbi.nlm.nih.gov

Course Description

College of Medicine

University of Mosul

Department of Pathology & Forensic Medicine

1. Course Name:	
Forensic medicine	
2. Course Code:	
MCPa401	
3. Semester / Year:	
1st and 2nd Semester /2025-2026	
4. Description Preparation Date:	
7/8/2025	
5. Available Attendance Forms:	
Register attendance in person (Attendance)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
120 hours/6 Units	
7. Course administrator's name (mention all, if more than one name)	
Lecturer Karam Turath Tawfeeq Agha	kta@uomosul.edu.iq
Lecturer Elaf Abdulwahhab Hamdi	ela@uomosul.edu.iq
Lecturer Dr. Maryam Faris Saleh	maryam.salih@uomosul.edu.iq
Assistant Lecturer Liqqa Khalel Othman	liqqakhalelalhyali@uomosul.edu.iq
Assistant Lecturer Wafaa Sabri Eid	wafaa.albawei@uomosul.edu.iq
Assis. Prof. Dr. Shamil Hashem Al Nuaimi	sho@uomosul.edu.iq
Assis. Prof. Dr. Shatha Hani Muhammad	shm@uomosul.edu.iq
Assis. Prof. Dr . Ibrahim Mohammed Faisal	ibrahim.faisal1977@uomosul.edu.iq
Lecturer. Dr . Nada S. Mahmood	nadasm79.nm@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The aim of the course is to provide fourth-year medical students with fundamental knowledge and a deep understanding of the clinical signs and features of different types of injuries, as well as the proper method of writing a medicolegal report for such cases. It also aims to enable students to diagnose cases of death and determine their association with violence or criminal acts.</p> <p>In addition, the course highlights the importance of forensic medicine in most natural and unnatural incidents, such as electrocution, asphyxia, and sexual assault. The course also covers toxicology, explaining the effects of various chemicals and poisonous substances from both medical and legal perspectives.</p> <p>By the end of the course, the student will be able to:</p> <p>Knowledge outcomes:</p> <p>K1: Understand the principles of forensic medicine, types and causes of death, toxic substances and their effects, postmortem changes, and patterns of injury to aid in determining cause and manner of death. (KP1,KP2)</p> <p>K2: Identify knowledge in managing poisoning cases, understanding medical and legal responsibilities, and handling sensitive cases ethically. (KP4,KP8)</p> <p>K3: Describe the impact of environmental and occupational toxins, recognize sociocultural aspects of violence and global health issues, and utilize forensic</p>

	<p>medicine to promote public health and justice. (KP3,KP8)</p> <p>Skill outcomes:</p> <p>S1: Develop the ability to gather and interpret forensic evidence, analyze medical and toxicological reports, and determine the cause of injury or death using critical and scientific reasoning. (PC1, PC2).</p> <p>S2: Demonstrate skills in preparing legally sound forensic reports and effectively communicating findings with medical teams, while adhering to ethical and professional standards in sensitive cases. (PC5).</p> <p>S3: Apply forensic and toxicological knowledge in laboratory settings and real-life scenarios, including emergency assessment and intervention in poisoning or injury cases. (PC3, PC4, PC5)</p> <p>Attitude outcomes</p> <p>A1: Uphold confidentiality, neutrality, and respect in handling sensitive forensic information, adhering strictly to ethical and legal principles. (ETW1, ETW2)</p> <p>A2: Demonstrate accountability, openness to feedback, teamwork, and leadership in forensic case discussions and professional settings. (CSP5, ETW3)</p> <p>A3: Show continuous interest in updating knowledge and skills in forensic medicine and toxicology to stay aligned with evolving scientific and legal standards. (ETW4)</p>
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> - Theoretical Lectures - Practical Sessions - E-Learning
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10. Course Structure

Week	Hours	Required Learning Outcomes	Subject name	Learning method	Evaluation method
22	45	-Forensic Medicine Foundations. -Identification and Examination of autopsy -Injuries and Causes of Death -Medico-Legal Aspects of Special Cases -Asphyxia and medical errors.	Forensic Medicine	Theoretical lectures and practical sessions	Midterm exam, final exam (theory& practical)
8	15	-Branches and Principles of Toxicology. -Approach to Poisoned Victims -Poisoning and Treatment -Drugs of Abuse and Genetic Toxicology.	Toxicology	Theoretical lectures	Midterm exam, final exam (theory)

11. Course Evaluation

1. First semester practical exam – **15%**

2. Mid-year theoretical exam – **20%**
3. Second semester practical exam – **15%**
4. Final theoretical exam – **50%**

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	- "Al-Wajeez in Forensic Medicine" – Dr. Wasfi Mohammed Ali - "Ellenhorn's Medical Toxicology"
Main references (sources)	"Al-Wajeez in Forensic Medicine" – Dr. Wasfi Mohammed Ali
Recommended books and references (scientific journals, reports...)	<ol style="list-style-type: none"> 1. Joseph Prahlow – <i>Atlas of Forensic Pathology & Forensic Pathology</i>. 2. KNIGHT'S Forensic Pathology – Bernard Knight. 3. Color Atlas of Forensic Medicine and Pathology. 4. Casarett & Doull's Toxicology: The Basic Science of Poisons. 5. "The First Book in Forensic Medicine" – Dr. Ahmed Ezzat Al-Qaisi
Electronic References, Websites	<ol style="list-style-type: none"> 1. https://www.forensicmed.co.uk 2. https://www.omicsonline.org/forensic-research.php 3. https://www.toxicology.org

Course Description Form

University of Mosul

College of Medicine

Department of Medicine

1. Course Name:	
Behavioral science	
2. Course Code:	
MCMd402	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
30/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total credit hours = 15 (Theoretical hours: 15hrs) Total Units: 1	
7. Course administrator's name (mention all, if more than one name)	
Lecturer Safeya Adeb Al-Chalabi	safeyaalchalabi81@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The course provides essential knowledge in behavioral sciences to medical students, aiming to build a strong foundation in understanding human behavior. This knowledge will enhance students' clinical skills in diagnosing and managing psychological and behavioral aspects in medical practice, thereby improving patient care and healthcare outcomes.</p> <p>1. Knowledge:</p> <ul style="list-style-type: none">• K1. Understand core behavioral science concepts (KP1, KP2).• K2. Identify factors influencing human behavior (KP1, KP2, KP4).• K3. Explain principles of learning and memory (KP2).• K4. Understand stress and coping mechanisms (KP1, KP2, KP3, KP4). <p>Skills:</p> <p>S1: Apply effective communication in behavioral assessments, use techniques to evaluate psychological conditions, analyze and interpret behavioral patterns and finally manage strategies for patient stress and well-being (PC3, PC8).</p> <p>S2: Differentiate between various behavioral and psychological concepts, analyze factors affecting human behavior and distinguish between psychological and physiological influences on behavior (PC1).</p>

	<p>S3: Apply problem-solving skills for lifelong learning and demonstrate critical thinking in analyzing behavioral issues (PC9).</p> <p>3. Attitudes:</p> <p>A1: Recognize any ethical problems in relation to the topics and act accordingly (CSP1, CSP2, ETW1).</p> <p>A2: Recognize the importance of respect of the patient's dignity and privacy (CSP3, CSP4, CSP6, ETW2).</p>
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • Theoretical lectures aim to provide basic knowledge to the students in different aspects of behavioral sciences • Stimulators • Discussion during and after the lectures
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10. Course Structure

Week	HO	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-2	1	Introduction to psychiatric and behavioral sciences.	Introduction to Psychology	Theoretical lecture	Theoretical exam
3-4	1	Anatomical and physiological aspect of neuroscience	Neuroscience and Behavior	Theoretical lecture	Theoretical exam
5-6	1	Pathways of both sensation and perception	Sensation and Perception	Theoretical lecture	Theoretical exam
7-8	1	To differentiate between different states of consciousness	States of Consciousness	Theoretical lecture	Theoretical exam
9-11	1	The mechanism of learning	Learning	Theoretical lecture	Theoretical exam
12-14	2	Different types of memory	Memory	Theoretical lecture	Theoretical exam
15-17	1	The aspects of cognition	Cognition and Language	Theoretical lecture	Theoretical exam
18-19	1	Intelligence and how to evaluate it	Intelligence	Theoretical lecture	Theoretical exam
20-21	1	Motivation and Emotion	Motivation and Emotion	Theoretical lecture	Theoretical exam
22-23	1	Stages of sexuality	Sexuality and Gender	Theoretical lecture	Theoretical exam
23-24	1	Development from psychiatric aspect	Development	Theoretical lecture	Theoretical exam

25-26	1	Different types of personality	Personality	Theoretical lecture	Theoretical exam
27-28	1	How to deal and coping with stress	Health Psychology: Stress, Coping, and Well-Being	Theoretical lecture	Theoretical exam
29	1	Social Psychology	Social Psychology	Theoretical lecture	Theoretical exam

11. Course Evaluation

- 30% mid-year theoretical examination
- 70% final year theoretical examination

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	-Oxford Handbook of Psychiatry 4th edition -Shorter Oxford Text Book of Psychiatry 7th edition
Main references (sources)	College library
Recommended books and references (scientific journals, reports)	The Maudsley Prescribing Guidelines in Psychiatry 14th Edition New Oxford Textbook of Psychiatry 3rd edition
Electronic References, Websites	pubmed, uptodate

Course Description Form

University of Mosul

College of Medicine

Department of Family & Community Medicine

1. Course Name:	
Community Medicine	
2. Course Code:	
MCCO403	
3. Semester / Year:	
First and second 2025-2026	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Available	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total= 225 (Theoretical hours=105, Practical hours=120) No. of Units=11	
7. Course administrator's name (mention all, if more than one name)	
1-Dr. Humam Ghanem Zubeer hiz@ uomoul.edu.iq 2- Dr. Name: Nadia Hazem Saied nad@uomosul.edu.iq 3-Dr. Waleed Ghanem wga@ uomoul.edu.iq 4-Dr. Najlaa Ibrahim Al-Sammak nim@ uomoul.edu.iq 5-Dr. Omaima Abdurazaq Zubeer Oaz@ uomoul.edu.iq 6- Dr. Nuha Hachem drnuhah@uomosul.edu.iq	
8. Course Objectives	
Course Objectives	<p>The aim of the course is to provide students with adequate knowledge, skills, and attitude related to community and preventive medicine and public health science that include; communicable diseases, non-communicable diseases , screening, evaluation, monitoring of health problems in the community, in addition to effective doctor- patient communication skills.</p> <p>By the end of this course the student will be able to:</p> <p>Knowledge outcomes:</p> <p>K1.Define the community medicine, health, prevention,communicable disease and non-communicable disease, and topic related to social sciences , occupational medicine) KP3, KP4,PC4(</p> <p>K2: Define epidemiology and describe primary applications of epidemiology in public health practice. (KP3, KP4,PC4(</p> <p>K3:list the main communicable diseases and recognize the non communicable diseases</p> <p>K4 identify the main role of primary health care and its levels</p> <p>K5 discuss woman and child health problems)KP3)</p> <p>K6 understand the medical administration and identify school health Services and its preventive aspects. (KP3)</p> <p>K7: explain the environmental health and describe the medical entomology</p> <p>K8: Define social health in public medicine. (KP2, KP5, KP6)</p>

	<p>K9: study occupational health and related diseases. (KP3,) Skill outcomes S1. Solve a problem related to a scenario regarding screening for disease (PC8, PC9,CSP4, PC4) S2. design research study related to one of community problems (PC8, PC9,CSP4, PC4) S3. practice the role of doctors in communication with the patients (PC8, PC9,CSP4, PC4) S4. Criticize the prevention and evaluation program. (PC8, PC9,CSP4, PC4) Attitude outcomes A1. Appraise the skills of communication and community medicine in dealing with the health of the community. A2. Disseminate knowledge to the community to increase level of awareness to health practice and health problems among population A3. Honor and respect seniors and other colleagues involved in his teaching and subsequently in his future practice. (KP4, ETW3, ETW4)</p>
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9. Teaching and Learning Strategies

Strategy	<ol style="list-style-type: none"> 1. Lectures 2. Team-based learning 3. Small group discussion 4. Seminars and presentations 5. Critical thinking.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-4	15	1- Define epidemiology	Epidemiology and evidence based medicine	Lectures	Written assessment (essay, MCQs and problem solving questions)
15-1	60	describe primary applications of epidemiology in public health practice.	Epidemiological exercises	Small group discussion	Exercises solving Homework.
5-14	35	1-list the main communicable diseases. 2-identify prevention, communicable disease.	Communicable diseases	Lectures	Written assessment essay, MCQs

15-16	9	1-Recognize the social factors and its relation to health. KP2, KP5, KP6 2-Discuss the main social pathologies. PC8, PC9,CSP4	Medical Sociology	Lectures	Written assessment essay, MCQs
17-19	9	1-recognize the communicable diseases 2-Identify the main preventive measures. KP3, KP6	Non communicable disease	Lectures	Written assessment essay, MCQs
20-22	10	discuss woman and child health problems. KP3,PC6	Maternal and child health	Lectures Team based learning	Written assessment essay, MCQs
23	7	1-identify the main role of primary health care and its levels and the role of primary health care in conducting the sustainable developmental goals. KP3, KP7	Primary health care and SDG	Lectures	Written assessment essay, MCQs
24-26	8	1- explain the environmental health. KP3, KP7	Environmental health	Lectures	Written assessment essay, MCQs
27-28	5	Study occupational health and related diseases. KP3	Occupational health	Lectures	Written assessment essay, MCQs
30	2	1-Identified programs that reduce morbidity and mortality from common childhood diseases. KP3, PC6	Priorities in health problems	Lectures	Written assessment essay, MCQs
30-31	5	understand the medical administration. KP3, KP7	Medical administration	Lectures	Written assessment essay, MCQs
30-15	60	Identifying the theoretical and practical principles of medical research	Medical research	Small group discussion Seminars Critical appraisal	Written assessment essay, MCQs and Critical appraisal

	conducting. KP4, ETW3, ETW4		
11. Course Evaluation			
20% mid-year examination 20% course practical examination (10% for 1 st course and 10% for 2nd course) 60% final year examination			
12. Learning and Teaching Resources			
Required textbooks (curricular books, if any)	1- Park's Textbook of preventive and social medicine edited by K. Park		
Main references (sources)	2- Control of Communicable diseases Manual Edited by David L. Heymann, MD and J. D. S. L. <i>Gordis Epidemiology</i> . 6th Edition, 2018.		
Recommended books and references (scientific journals, reports...)	1. Practical notes for students on epidemiological practices 2. Zubair A.O. Basic Guidelines For Medical Researches. First Edition. Alkashkool publisher. 2024. ISBN: 9789922875644		
Electronic References, Websites			

Course Description Form

University of Mosul

College of Medicine

Department of Obstetrics & gynecology

1. Course Name:	
Obstetrics	
2. Course Code:	
MCOg404	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
150 hours (60 hours theoretical, 90 hours practical). Number of units :7	
7. Course administrator's name (mention all, if more than one name)	
Prof. Raida Muhammed Al-Wazzan	rmw@uomosul.edu.iq
Assit.Prof.Ahmed Jassim Al-Husseini	ajm@uomosul.edu.iq
Lecturer Saja Abdel Bari Aljawadi	<u>saa@uomosul.edu.iq</u>
Lecturer Asma Abdul Razzaq	asmaabdulrazaq@uomosul.edu.iq
Lecturer Baraa Lukman Mohammed	blm@uomosul.edu.iq
Lecturer Heba Ahmed Suhail	hiba.suhail@uomosul.edu.iq
Lecturer Amina Zakaria Altutunji	azs@uomosul.edu.iq
Lecturer Roaa Abdul-Jabbar	roaa.abduljabbar@uomosul.edu.iq
Lecturer Aseel Bassim	Aseel basim@uomosul.edu.iq
Lecturer Hadeel Anwar Al-Sarraj	Hadeel.anwar@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The course in obstetrics aims to provide medical students with comprehensive knowledge of pregnancy, child birth and postpartum care. It focuses on the identification and management of normal and high risk pregnancies, as well as obstetric emergencies. Students will learn to perform clinical assessments, interpret diagnostic tests and apply evidence based practices in maternal care. At the end of the course, students will be able to</p> <p>Knowledge outcomes:</p> <p>K1 Demonstrate the knowledge about the anatomy of maternal pelvis& physiology of normal pregnancy including fetal development.(KP1)</p> <p>K2 Apply the knowledge to solve any complication in pregnancy, labour & postpartum period. (KP3)</p> <p>K3 Apply the knowledge to solve common obstetrics emergencies & appropriate interventions. (KP3)</p> <p>Skills outcomes:</p> <p>S1 Ability to perform a comprehensive antenatal assessment including history taking & perform full obstetrical & pelvic examination accurately. (PC1)</p>

	<p>S2 Explain common diagnostic & therapeutic interventions to identify normal & high risk pregnancies & provide appropriate management including emergencies. (PC3),(PC4)</p> <p>S3 Perform common procedures safely& accurately by adopt realistic simulators for practicing clinical procedures, allowing learners to develop and refine hand on skills without risk to patients such as obstetric examinations and emergency interventions in skill lab of obstetrics. (PC7)</p> <p>A. Attitude outcomes:</p> <p>A1 Show empathy & compassion towards pregnant patients & their families& defend the patient safety & quality of care in obstetric practice. (ETW1)</p> <p>A2 Uphold of ethical standards in all clinical interactions. (ETW1)</p> <p>A3 Participate actively in teamwork& professional responsibility in clinical setting. (ETW3)</p>
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9. Teaching and Learning Strategies

Strategy	<p>-Theoretical lectures - two lectures per week</p> <p>-Clinical training in teaching hospitals or clinical skills laboratories</p>
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-2	4	Explain the anatomy of the female reproductive system, fertilization, fetal development	Introduction, anatomy, physiology& embryology	Theoretical lectures, clinical training in hospitals& skills lab	End-of-course exam(OSCE), mid-year exam and final exam
3-4	4	Explain the physiological changes during pregnancy& the effects of medication use during pregnancy	Systemic review of physiological changes in pregnancy Clinical signs and diagnosis of pregnancy &Effect of drugs during pregnancy and lactation	Theoretical lectures, clinical training in hospitals& skills lab	End-of-course exam(OSCE), mid-year exam and final exam
5-6	4	Identify morning sickness associated with pregnancy, miscarriage or ectopic pregnancy, and how to conduct a clinical examination of a pregnant woman	Morning sickness and hyperemesis gravidarum, Bleeding in early pregnancy, Miscarriage, Ectopic pregnancy& Gestational trophoblastic diseases	Theoretical lectures, clinical training in hospitals& skills lab	End-of-course exam(OSCE), mid-year exam and final exam
7-8	4	Explain the normal anatomy of the pelvis, how natural childbirth occurs, its stages, and how to monitor the progress of childbirth.	Gestational trophoblastic diseases, Anatomy of normal pelvis and fetal skull& Normal labour&Management	Theoretical lectures, clinical training in hospitals& skills lab	End-of-course exam(OSCE), mid-year exam and final exam

9-10	4	Describe methods required to monitor fetus during pregnancy&childbirth. identify postpartum disorders& abnormal positions of the fetal head during childbirth.	Fetal monitoring, The puerperium& its disorders & Fetal malposition (occipito-posterior and deep transverse arrest of the head)	Theoretical lectures, clinical training in hospitals& skills lab	End-of-course exam(OSCE), mid-year exam and final exam
11-14	8	Identify & describe abnormal fetal head positions during birth, the causes of bleeding before Birth, preeclampsia & discuss management options	Fetal mal presentation, Transverse lie, unstable lie, cord accident., Antepartum hemorrhage, Hypertensive disorders in pregnancy	Theoretical lectures, clinical training in hospitals& skills lab	End-of-course exam(OSCE), mid-year exam and final exam
15-16	4	Identify medical diseases associated with pregnancy& their impact on pregnancy	Diabetes mellitus, Thyroid and pituitary disorder, Heart disease& Hematological disorders in pregnancy	Theoretical lectures, clinical training in hospitals& skills lab	End-of-course exam(OSCE), mid-year exam and final exam
17-18	4	Identify medical diseases associated with pregnancy& their impact on pregnancy	Autoimmune disease, anti-phospholipid syndrome, Renal disease& Other medical disorders during pregnancy	Theoretical lectures, clinical training in hospitals& skills lab	End-of-course exam(OSCE), mid-year exam and final exam
19-20	4	Identify some surgical disorders during pregnancy, the causes of fetal death, discuss the management options, amniotic fluid disorders, the causes of delayed fetal growth inside the womb& explain the pathophysiology of rh isoimmunization& their effects on pregnancy.	Surgical disorder in pregnancy, IUFD, poly hydromnios and oligo hydromnios, IUGR& ABO blood group and rh related disorders.	Theoretical lectures, clinical training in hospitals& skills lab	End-of-course exam(OSCE), mid-year exam and final exam
21-22	4	Identify the causes of PROM, premature birth, delayed birth in pregnant women, the causes of multiple Pregnancies& discuss management	PROM, Preterm labour, Post-term pregnancy & Multiple pregnancy	Theoretical lectures, clinical training in hospitals& skills lab	End-of-course exam(OSCE), mid-year exam and final exam

23-24	4	Discuss the choice for induction methods, identify causes of delayed labor, obstructed labor & obstetric injuries	Induction of labour, Poor progress of labour and CPD, Obstructed labour, shoulder dystocia & Obstetric injuries	Theoretical lectures, clinical training in hospitals & skills lab	End-of-course exam (OSCE), mid-year exam and final exam
25-26	4	Identify the causes of PPH & discuss its treatment methods, identify common coagulation disorders during pregnancy, and understanding obstetric procedures such as cesarean sections and their applications.	PPH, Obstetric shock, Coagulation disorders in pregnancy & Obstetric procedures	Theoretical lectures, clinical training in hospitals & skills lab	End-of-course exam (OSCE), mid-year exam and final exam
27-28	4	Identify & describe common Obstetric procedures clinical USG & identify the factors causing potential pathological injuries during pregnancy.	Obstetric procedures, Ultrasound examination in obstetrics, Prenatal infections & Prenatal diagnosis	Theoretical lectures, clinical training in hospitals & skills lab	End-of-course exam (OSCE), mid-year exam and final exam
29-30	4	Identify normal newborn vital signs, explain etiology & clinical features of congenital & chromosomal abnormalities & analyze local obstetric data	Newborn, Congenital & chromosomal fetal abnormalities & obstetric statistics	Theoretical lectures, clinical training in hospitals & skills lab	End-of-course exam (OSCE), mid-year exam and final exam
1-10	90	Conduct antenatal history & examination, manage normal pregnancy, perform normal labour & basic obstetric procedures, recognize & manage obstetric emergencies	History taking, obstetric examination, bleeding in early pregnancy & APH, labour & its management, preterm labour & PPRM, hypertension & DM during pregnancy, obstetric procedure as CS, puerperium	Theoretical lectures, clinical training in hospitals & skills lab	End-of-course exam (OSCE)

11. Course Evaluation

Summative Examinations

1-Clinical End-of-Course Examination (OSCE) 20%

2-Mid-year Examination (Theoretical) 20% (SBA)

3-Final Year Examination (Theoretical) 60% (SBA)	
12. Learning and Teaching Resources	
Required textbooks (curricular books)	Obstetrics By Ten Teachers
Main references (sources)	Obstetrics by Ten teachers , Theoretical lectures given by lecturers
Recommended books and references (scientific journals, reports...)	Oxford handbook of obstetrics Obstetrics illustrated
Electronic References, Websites	Medscape, Green top guideline & Nice guideline

Course Description Form

University of Mosul

College of Medicine

Department of Medicine

1. Course Name:	
Medicine	
2. Course Code:	
MCMd405	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
12 credits/ 235 hours (135 hours theory +90 hours practical) , 12 units	
7. Course administrator's name (mention all, if more than one name)	
Assist. Prof . Arwa Mahmood Fawzi	arwamf.alsarraf@uomosul.edu.iq
Assist.Prof. Dhiyaa A. Ahmed	dhiyaa_ahmed62@uomosul.edu.iq
Assist.Prof. Mohammad Harith	mohammedharith11@uomosul.edu.iq
Assi.prof alia abdulaziz	aliaabdulaziz@uomosul.edu.iq
Lecturer Abdullah Alyouzbaki	Abdullah_alyyouzbaki@uomosul.edu.iq
Lecturer Wael Thanon	waelthanoon@uomosul.edu.iq
Lecturer Ahmed Mohammed	ahmed.lbraheem@uomosul.edu.iq
Lecturer Nawaf yahya	nawafymahmood@uomosul.edu.iq
Lecturer Mohammed Ghazi	mohammedghazi@uomosul.edu.iq
8. Course Objectives	
Course Objectives	K1 : The primary goal of this course is to provide students with foundational knowledge about pathophysiology etiology , diagnostics methods and therapeutic principles regarding cardiovascular , respiratory , gastrointestinal , liver , kidney , endocrine systems and infectious diseases to be able to apply this knowledge in clinical practice (KP1, KP4, KP5, KP6 ,KP7).

	<p>K2: Integrate this knowledge with clinical science. This integration is critical to the application of the principles of evidence-based medicine in reach diagnosis and decision making. At the end of this course students will be able to apply their knowledge into clinical medicine . (KP1, KP4, KP5, KP6 ,KP7).</p> <p>K3 : Solve clinical problems in different systems of human body that students might face during their career in practicing medicine. (KP1, KP4, KP5, KP6 ,KP7).</p> <p>Skills</p> <p>S1: collect accurate information and effectively present it about the patient and his condition by taking the medical history . (PC1).</p> <p>S2:The ability to interpret results from medical history taken and clinical examination to reach the correct diagnosis . (PC2).</p> <p>S3: Knowing the tests required to reach the diagnosis and how to interpret it and knowing the appropriate treatment . (PC3,4).</p> <p>Attitude</p> <p>A1: Participant actively in learning by engaging in discussions with both the lecturer and fellow students. (CSP1, ETW1).</p> <p>A2: respect colleagues and behave according to ethical standards when dealing with patients . . (CSP2, ETW2)</p> <p>A3: Work effectively in a team, demonstrating both collaboration and leadership skills during group activities or practical sessions. (CSP4, CSP5, ETW4).</p>
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • Theoretical lectures using data show in the lecture hall, to provide basic knowledge in medicine • Practical labs or clinical sessions: the students are divided into small groups each of 10-15 students • Seminars and presentations: the students are divided into small groups to do seminars in hospitals. • Others/example e-learning
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-4	20	Introduction to cardiology (CVS), Respiratory(RS) ,Gastroenterology (GIT) and Nephrology(NS)	Basic Knowledge of anatomy , physiology and pathology of main systems.	Theoretical lecture and practical lab	Essay MCQ Practical exam

5-8	20	Introduction of infectious diseases(ID) and endocrinology systems (ES). Common diseases in CVS , RS and ID	Basic Knowledge of anatomy , physiology and pathology of main systems.	Theoretical lecture and practical lab	ESSAY MCQ Practical exam
9-12	20	Common topics in CVS , RS , ID and ES	Basic knowledge about common diseases in CVS , RS , ID and ES	Theoretical lecture and practical lab	ESSAY MCQ Practical exam
13-16	20	Common topics in CVS , RS, GIT	Basic knowledge about common diseases in CVS , RS and GIT	Theoretical lecture and practical lab	ESSAY MCQ Practical exam
17-20	18	Common topics in NS , CVS, ID, ES	Basic knowledge about common diseases in NS , CVS , ID and ES.	Theoretical lecture and practical lab	ESSAY MCQ Practical exam
21-24	17	Common topics in GIT , CVS , ID	Basic knowledge about common diseases in GIT , CVS and ID	Theoretical lectures and practical lab	ESSAY MCQ Practical exam
25-30	20	Common topics in GIT , ID and CVS	Basic knowledge about common diseases in GIT , CVS and ID	Theoretical lectures and practical lab	ESSAY MCQ Practical exam
11. Course Evaluation					
<ul style="list-style-type: none"> • 20% mid-year theoretical examination • 20% practical examination • 60% final year examination 					
12. Learning and Teaching Resources					

Required textbooks (curricular books, if any)	<ol style="list-style-type: none"> 1. Davidson general practice of medicine 2. Macleod clinical examination
Main references (sources)	Medical library
Recommended books and references (scientific journals, reports...)	Pub med
Electronic References, Websites	Google classroom platform

Course Description Form

University of Mosul

College of Medicine

Department of Surgery

1. Course Name:	
Surgery	
2. Course Code:	
MCSu406	
3. Semester / Year:	
1 st and 2 nd Semesters / 2025-2026	
4. Description Preparation Date:	
14/9/2025	
5. Available Attendance Forms:	
Register attendance in person	
6. Number of Credit Hours (Total) / Number of Units (Total)	
150 Hours(theory 90, clinical 60) / 8 Units (theory 6, clinical 2)	
7. Course administrator's name (mention all, if more than one name)	
Prof. Samir Ibrahim Al-saffar	sameeribsaffar@uomosul.edu.iq
Prof. Ali Abdulmuttalib	aliabdmutt@uomosul.edu.iq
Prof. Basil Mohammed Nather	basil.saeed@uomosul.edu.iq
Assistant Prof. Firas Mahmood Alchalabi	firasmahibrm@uomosul.edu.iq
Assistant Prof. Karam Kamal Younus	karamkyounis@uomosul.edu.iq
Assistant Prof. Zaid Saaduldeen Khudhur	zaidsaadkhudhur@uomosul.edu.iq
Assistant Prof. Nooman Hadi Saeed	noomanhadisa@uomosul.edu.iq
Assistant Prof. Uday Hani Mohammad	udayhanimoh@uomosul.edu.iq
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Lecturer. Ali Hasan Mohammed	ali.mohammd@uomosul.edu.iq
Dr. Omar Saad Mahmood	omar.mahmood@uomosul.edu.iq
Lecturer. Zeyad Abd-Almunim	ziyadaashanshal@uomosul.edu.iq
Lecturer. Ashraf Ibrahim Mohammed	ashrafibrmoham@uomosul.edu.iq
Lecturer. Ahmed Abd-Almunim	ahmed.kardoshi@uomosul.edu.iq
Lecturer. Baraa Mahir	baraamahaziz@uomosul.edu.iq
Lecturer. Mohammad Saad	mohsaadazeez@uomosul.edu.iq
Lecturer. Sinmar yonis	sinmaryounisha@uomosul.edu.iq
Lecturer. Mohanad Adnan Bakr	mohanadadnan86@uomosul.edu.iq
Lecturer. Muddather Abdulaziz Mohammed	muddatherabdmoh@uomosul.edu.iq
Assistant Prof. Basam Khalid	bassamkhhajj@uomosul.edu.iq
Assistant Prof. Obai Abdulaziz	obayabdedaan@uomosul.edu.iq
Assistant Prof. Ziad Tariq	ziadtariqmahm@uomosul.edu.iq
Lecturer. Mohammad Inaam	mohdewaje@uomosul.edu.iq
8. Course Objectives	
Course Objectives	The course describes the basic knowledge of Surgery and its branches to the medical students in order to build the clinical knowledge and clinical skills in the next years in diagnosis and treatment of the different surgical diseases including the emergent conditions, so optimize the medical services to the society. Knowledge:

K1. Recognize the basic theoretical and clinical knowledge of surgery and its branches and became able to apply this knowledge on common surgical cases attending the emergency and consultation departments (KP1)

K2. Describe the surgical anatomy of surgically important cases (KP1)

K3. Describe the etiology, pathophysiology, clinical symptoms, complications, and methods of diagnosis and most successful treatment of common surgical conditions (KP5, PC3, PC5)

Skills:

S1: Gather, document, and effectively present essential and accurate information about patients and their conditions through history-taking, physical examination and an assessment of mental state (PC1)

S2: Interpret the findings from the history, the physical examination, and the mental-state examination to construct a preliminary differential diagnosis (PC2)

Attitude:

A1. Follow the necessary rules in how to communicate and interact with the patient (CSP1)

A2. The student will be able to recognize any ethical problems in relation to the topics and act accordingly (CSP2)

A3. The student will be able to recognize the importance of respect of the patient's dignity and privacy (ETW2)

9. Teaching and Learning Strategies

Theoretical lectures
 Clinical bedside training
 Skill lab training

10. Course Structure

Week	Hours	Subject name	Required learning outcomes	Learning method	Evaluation method
1	3	Esophagus	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the esophagus.	Theoretical Lectures	Theoretical exams.
2	4	Stomach & duodenum	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the stomach and duodenum.	Theoretical lectures and clinical sessions	Theoretical and clinical exams
3	3	Small bowel	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the small bowel.	Theoretical lectures and clinical sessions	Theoretical and clinical exams
4	2	Peritoneum omentum and mesentery	To comprehend Surgical conditions of the peritoneum, mesentery, greater omentum and retroperitoneal space.	Theoretical lectures and clinical sessions	Theoretical and clinical exams
5	2	Spleen	To comprehend The pathology, clinical presentation, investigation, differential	Theoretical lectures and	Theoretical and clinical exams

			diagnosis and treatment of diseases that affect the spleen.	clinical sessions	
6	3	Colon	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the colon.	Theoretical lectures and clinical sessions	Theoretical and clinical exams
7	2	Vermiform appendix	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the appendix.	Theoretical lectures and clinical sessions	Theoretical and clinical exams
7	2	Intestinal obstruction	To comprehend The pathophysiology of dynamic and adynamic intestinal obstruction. To comprehend The cardinal features, causes and management of bowel obstruction.	Theoretical lectures and clinical sessions	Theoretical and clinical exams
8	3	Rectum	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the rectum.	Theoretical lectures and clinical sessions	Theoretical and clinical exams
9	3	Anal canal	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the anal canal.	Theoretical lectures and clinical sessions	Theoretical and clinical exams
10	4	Liver	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the liver.	Theoretical lectures and clinical sessions	Theoretical and clinical exams
11	3	Biliary system	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the biliary system.	Theoretical lectures and clinical sessions	Theoretical and clinical exams
12	3	Pancreas	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the pancreas.	Theoretical lectures and clinical sessions	Theoretical and clinical exams
13	4	Thyroid surgery	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the thyroid gland.	Theoretical lectures and clinical sessions	Theoretical and clinical exams.
14	1	Parathyroid	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the parathyroid gland.	Theoretical lectures	Theoretical exams.
15	2	Surgery of endocrine glands	To comprehend The pathology, clinical presentation, investigation, differential	Theoretical lectures	Theoretical exams.

			diagnosis and treatment of diseases that affect the endocrine glands.		
16	1	Principles of bariatric surgery	To comprehend Eligibility and NICE guidelines, the common operations, How to assess and treat perioperative complications, follow-up, nutritional supplements and biochemical monitoring.	Theoretical lectures	Theoretical exams.
17	4	Surgery of the breast	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the breast.	Theoretical lectures and clinical sessions	Theoretical and clinical exams.
18	2	Salivary glands	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the salivary glands.	Theoretical lectures	Theoretical exams.
18	1	Oral cavity and tongue	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the oral cavity.	Theoretical lectures	Theoretical exams.
18	2	Neck surgery	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the neck.	Theoretical lectures	Theoretical exams.
19	4	Abdominal wall	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the abdominal wall.	Theoretical lectures and clinical sessions	Theoretical and clinical exams.
20	1	Diabetic foot	To comprehend The pathology, clinical presentation, investigation and treatment of diabetic foot.	Theoretical lectures and clinical sessions	Theoretical and clinical exams.
21	2	Symptomatology and investigations of urinary system	To comprehend The definitions of common lower urinary tract symptoms. To be able to select the appropriate diagnostic tests.	Theoretical lectures and clinical sessions	Theoretical and clinical exams.
21	1	Congenital anomalies of the upper urinary tract	To comprehend Congenital anomalies of the kidney and ureter.	Theoretical lectures	Theoretical exams.
22	3	Surgical infections of the urinary tract	To comprehend Classification, definitions, pathogenesis and management of urinary tract infections.	Theoretical lectures	Theoretical exams.

23	3	Urinary stone diseases	To comprehend The pathophysiology and management of renal and ureteric stone disease.	Theoretical lectures and clinical sessions	Theoretical and clinical exams.
24	3	upper urinary tract injuries	To comprehend the Presentation and management of Trauma to the kidney and ureter.	Theoretical lectures	Theoretical exams.
25	3	Renal tumors	To comprehend Presentation and management of renal neoplasms.	Theoretical lectures	Theoretical exams.
26	1	Hydronephrosis	To comprehend The clinical features, investigations and principles of management of hydronephrosis.	Theoretical lectures	Theoretical exams.
26	2	Vesicoureteral reflux	To comprehend The clinical features, investigations and principles of management of reflux.	Theoretical lectures	Theoretical exams.
27	1	Bladder and urethral injuries	To comprehend The clinical features, investigations and principles of management of bladder and urethral injuries.	Theoretical lectures	Theoretical exams.
27	1	Bladder tumors	To comprehend The clinical features, investigations and principles of management of bladder cancer.	Theoretical lectures	Theoretical exams.
27	1	Benign Prostatic Hyperplasia	To comprehend The clinical features, investigations and principles of management of BPH.	Theoretical lectures	Theoretical exams.
28	1	Prostatic Carcinoma	To comprehend The clinical features, investigations and principles of management of prostate cancer	Theoretical lectures	Theoretical exams.
28	1	Neurogenic bladder	To comprehend The clinical features, investigations and principles of management of neurogenic bladder.	Theoretical lectures	Theoretical exams.
28	1	Congenital Anomalies of lower urinary system	To comprehend The common congenital anomalies of the urethra.	Theoretical lectures	Theoretical exams.
29	1	Scrotal Pathologies	To comprehend The pathology, clinical presentation, investigation, differential diagnosis and treatment of diseases that affect the scrotum.	Theoretical lectures	Theoretical exams.
29	1	Surgical aspect of male infertility	To comprehend Male factor infertility.	Theoretical lectures	Theoretical exams.
29	1	Urinary Diversion	To comprehend the principles of Urinary Diversion.	Theoretical lectures	Theoretical exams.

30	1	Renal transplantation	To comprehend the principles of Renal transplantation.	Theoretical lectures	Theoretical exams.
30	1	Urological emergencies	To comprehend Presentation and management of the common Urological emergencies.	Theoretical lectures	Theoretical exams.
30	1	Urethral stricture	To comprehend The diagnosis and treatment of urethral stricture.	Theoretical lectures	Theoretical exams.
30	1	Erectile dysfunction	To comprehend Causes, investigation and treatment of erectile dysfunction.	Theoretical lectures	Theoretical exams.

11. Course Evaluation

Mid-year written exam (20 marks)
 final written (60 marks)
 clinical examination at the end of the course (20 marks)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Baily and Love's Short Practice of Surgery 28 th edition. 2. Browse's introduction to the symptoms and signs of surgical disease 6 th edition.
Main references (sources)	Schwartz's Principles of Surgery 11 th edition
Recommended books and references (scientific journals, reports...)	1. The Washington Manual of Surgery (Lippincott Manual Series 8th Edition) 2. Current Diagnosis and Treatment Surgery by Gerard Doherty 15 th edition.
Electronic References, Websites	Websites: Uptodate, Pubmed, Medscape.

Course Description Form

University of Mosul

College of Medicine

Department of Pediatrics

1. Course Name:	
Pediatrics	
2. Course Code:	
MCPe407	
3. Semester / Year:	
Second/ 2025-2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical hours= 15 (1 unit)	
7. Course administrator's name (mention all, if more than one name)	
Dr. Omar Yahya Ali	oya@uomosul.edu.iq
Dr. Aws Hazem Ahmed	awshazimah72@uomosul.edu.iq
Dr. Farah Sameer Yahya	fsy@uomosul.edu.iq
Dr. Nawar Yahya Ahmed	nya@uomosul.edu.iq
Dr. Ahmed saad	ahmed-dewachi@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>This course aims to provide students with comprehensive information and training in pediatric development, nutritional disorders, genetic illnesses, inborn errors of metabolism, and poisoning. At the end of the course, students will be able to:</p> <p>Knowledge outcomes:</p> <p>K1. Explain the natural growth patterns of infants and older children.(kp1)</p> <p>K2. Recognize major genetic disorders, their molecular basis, and clinical manifestations. (kp2, kp3)</p> <p>K3. Outline diagnostic approaches and management strategies for common metabolic disorders. (kp3)</p> <p>K4. Explain the types, causes, and consequences of malnutrition(kp2,kp5)</p> <p>Skill outcomes:</p> <p>S1. Assess the child's physical, motor, and cognitive development using appropriate charts and tools for each age group (CSp3)</p> <p>S2. Classify and interpret the causes of failure to thrive in children based on medical history and physical examination (CSp4,5)</p> <p>S3. Classify metabolic disorders according to type and etiology and identify the clinical indicators of each. (CSp 5, CSP7)</p> <p>Attitude outcomes:</p> <p>A1. Demonstrating empathy and patience when dealing with children and their caregivers. (ETW3, ETW5)</p> <p>A2. Maintaining confidentiality of the child's and family's medical information (ETW2, ETW5)</p>

A3. Respecting cultural and social diversity in family practices related to nutrition and genetic conditions (ETW4, ETW6).

9. Teaching and Learning Strategies

Strategy Theoretical lectures

10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1	1	<ol style="list-style-type: none"> Describe the key components of pediatric history taking, including prenatal, perinatal, and postnatal history. Identify age-specific aspects of history such as feeding, growth, development, immunization, and family history. Explain the principles of conducting a systematic and complete physical examination in children. 	History and examination	lectures	MCQ or Assay
2	1	<ol style="list-style-type: none"> Describe the different types of infant feeding (exclusive breastfeeding, formula feeding, complementary feeding). Explain the nutritional requirements of infants at different ages (0–6 months, 6–12 months). Identify the benefits of breastfeeding for the infant, mother, and community. Discuss common feeding challenges and risks, including malnutrition, allergies, and infections. 	Infant feeding	lectures	MCQ or Assay
3	1	<ol style="list-style-type: none"> Define rickets and distinguish between nutritional and non-nutritional causes. Explain the pathophysiology of rickets, including vitamin D, calcium, and phosphate metabolism. Describe the laboratory and radiological findings characteristic of rickets. 	Rickets	lectures	MCQ or Assay
4-5	2	<ol style="list-style-type: none"> Define Failure to Thrive (FTT) and distinguish it from normal growth variations. 	Failure to thrive	lectures	MCQ or Assay

		<ol style="list-style-type: none"> 2. Explain the common causes of FTT (organic vs. non-organic) and their pathophysiology. 3. Identify the clinical features and growth patterns associated with FTT. 			
6	1	<ol style="list-style-type: none"> 1. Define allergy, hypersensitivity reactions, and anaphylaxis. 2. Explain the immunological mechanisms underlying IgE-mediated and non-IgE-mediated allergic reactions. 3. Identify common triggers of allergic reactions in children and adults 4. Describe the clinical features and diagnostic criteria of anaphylaxis. 	Allergy and anaphylaxis	lectures	MCQ or Assay
7-9	3	<ol style="list-style-type: none"> 1. Define normal growth and understand the principles of growth assessment. 2. Explain the physiological determinants of growth, including genetics, nutrition, and hormones. 3. Identify the normal growth patterns across different pediatric age groups. 	Growth & development	lectures	MCQ or Assay
10-12	3	<ol style="list-style-type: none"> 1. Define basic genetic concepts including genes, chromosomes, mutations, and inheritance patterns. 2. Explain Mendelian and non-Mendelian inheritance patterns relevant to pediatric disorders. 3. Identify common genetic disorders seen in children and their molecular basis. 4. Describe the principles of genetic screening, counseling, and diagnostic testing. 	Genetics	lectures	MCQ or Assay
13	1	<ol style="list-style-type: none"> 1. Define inborn errors of metabolism and classify them according to affected metabolic pathways. 2. Explain the biochemical and molecular basis of common IEMs. 3. Identify the typical clinical presentations and age of onset for major IEMs. 	Inborn error of metabolism	lectures	MCQ or Assay

		<p>4. Describe the diagnostic approaches, including laboratory and genetic testing.</p> <p>5. Discuss the principles of management, including dietary modifications, enzyme replacement, and supportive care.</p>			
14-15	2	<p>1. Define poisoning and distinguish between acute and chronic toxic exposures.</p> <p>2. Identify common poisons affecting children, including household chemicals, medications, and environmental toxins.</p> <p>3. Explain the pathophysiology and mechanisms of toxicity of major poisons.</p>	poisoning	lectures	MCQ or Assay

11. Course Evaluation

1. Mid-year exam 40 %.
2. Final exams: 60 %

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Nelson essentials of pediatrics (ninth edition) 2023
Main references (sources)	Nelson Textbook of Pediatrics 22th ed 2024
Recommended books and references (scientific journals, reports...)	Illustrated textbook of pediatrics (sixth edition)2022
Electronic References, Websites	NICE guidelines, up to date

Course Description Form

University of Mosul

College of Medicine

Department of Medicine

1. Course Name:	
Medicine	
2. Course Code:	
MCMd501	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total credit hours = 105 (Theoretical hours: 75hrs./Practical hours: 30hrs.) Total Units:6	
7. Course administrator's name (mention all, if more than one name)	
Prof faker Yousif	fakhiryousif1960@uomosul.edu.iq
Prof. Khalid nafaa	khalid_kheroo@uomosul.edu.iq
Assist. Prof. Ali abdrahman	ali.younis7622@uomosul.edu.iq
Assist. Prof.Yahya qasm	yahya.qasm@uomosul.edu.iq
Assi.prof alia Abdulaziz	aliaabdulaziz@uomosul.edu.iq
Lecturer Zahraa amer	zahraarh84@uomosul.edu.iq
Lecturer Mohammed ghanem	mohammed.kasim@uomosul.edu.iq
Lecturer Ahmed Mohammed	ahmed.lbraheem@uomosul.edu.iq
Lecturer omer Abdulmonem	omerabdulmonem@uomosul.edu.iq
Lecturer Ali sameer	ali.sameer@uomosul.edu.iq
Lecturer Sara hameed	sarahameed@uomosul.edu.iq
8. Course Objectives	
Course Objectives	The primary goal of this course is to provide students with foundational knowledge about pathophysiology and diagnostics methods and Knowledge

	<p>of therapeutic principles regarding neurological diseases, hematological and joints diseases and to integrate this knowledge with clinical science. This integration is critical to the application of the principles of evidence based medicine in reach diagnosis and decision making ,with end of this course students will be able to</p> <p>K1: Demonstrate and apply knowledge related to the fundamental principles of Neurological diseases (e.g., types of headaches, types of epilepsy, infections that affect brain). (KP1, KP4, KP5, KP6 ,KP7).</p> <p>K2: Describe and find out the cause and clinical symptoms related to blood disorders (e.g types of anemia, leukemia, haemorrhagic disorder). (KP1, KP4, KP5 ,KP6, KP7).</p> <p>K3: Integrate knowledge with clinical practice. This includes Performing a proper physical examination of a patient and understanding the clinical signs and symptoms related to skeletal system (e.g. rheumatoid arthritis, osteoarthritis, osteoporosis) (KP1, KP4, KP5, KP6, KP7).</p> <p>Skills</p> <p>S1: collect accurate information and effectively present it about the patient and his condition by taking the medical history (PC1).</p> <p>S2: The ability to interpret results from medical history taken and clinical examination to reach the correct diagnosis . (PC2).</p> <p>S3: Knowing the tests required to reach the diagnosis and how to interpret it and knowing the appropriate treatment (PC3, PC4).</p> <p>Attitude</p> <p>A1: Participant actively in learning by engaging in discussions with both the lecturer and fellow students. (CSP1, ETW1).</p> <p>A2: respect colleagues and behave according to ethical standards when dealing with patients . (CSP2, ETW2)</p> <p>A3: Work effectively in a team, demonstrating both collaboration and leadership skills during group activities or practical sessions. (CSP4, CSP5, ETW4).</p>
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • large group teaching: (theoretical lectures) 3lectures / week • Practical laboratory sessions: The students are divided into small groups each of 10-15 students in hospital to learn how examinations done and to learn how to reach diagnosis and management. • Team-based learning sessions.
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10. Course Structure

We	urs	HO	Required Learning Outcomes	subject name	Learning method	Evaluation method
1 - 2	3		1. Definition of terms and tests. 2. Discuss basic information on the nervous system, blood diseases, and joint diseases.	introduction	Lectures + Clinical training	Short assay OR MCQs + Practical exam

		3. Develop and justify the differential diagnosis and management plan			
3 - 1 3	30	1. Identify its types, understand its mechanisms of occurrence, and know its clinical symptoms and treatment options. 2. Explain common diagnostic and therapeutic interventions, assessment and underlying rationale to patients, families.	Diseases of the nervous system (epilepsy, stroke, peripheral neuropathy, spinal cord diseases)	Lectures + Clinical training	Short essay OR MCQs + Practical exam
1 4 - 2 1	21	1. Knowing and understanding the causes of blood diseases, knowing the risk factors, methods of diagnosis and treatment. 2. ability to interpret results from Clinical symptoms and investigations	Blood diseases (anemia, bleeding disorders, leukemia and lymphoma)	Lectures + Clinical training	Short essay OR MCQs + Practical exam
2 2 - 3 0	21	1. Knowing the risk factors, specific clinical signs, diagnostic methods, and appropriate treatment. 2. recognize imaging findings in musculoskeletal diseases (X-ray, MRI).	Joint diseases (rheumatoid arthritis, ankylosing spondylitis, osteoarthritis and osteoporosis)	Lectures + Clinical training	Short essay OR MCQs + Practical exam
11. Course Evaluation					
<ul style="list-style-type: none"> • 20% mid-year theoretical examination • 20% practical examination (OSCE : 2 station for rheumatology, 2 station for neurological exam and 2 data interpretation for haematology) • 60% final year examination 					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			1. Davidson general practice of medicine		

	2. Macleod clinical examination
Main references (sources)	Medical library
Recommended books and references (scientific journals, reports...)	Pub med
Electronic References, Websites	Google classroom platform

Course Description Form

University of Mosul

College of Medicine

Department of Medicine

1. Course Name:	
Psychiatry	
2. Course Code:	
MCMd502	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
30/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total credit hours = 75(Theoretical hours: 45hrs. /Practical hours: 30hrs.) Total Units:3	
7. Course administrator's name (mention all, if more than one name)	
Lecturer Safiyya Adeeb Alchalabi Lecturer Ekhlal Mohammad Ali	safeyaalchalabi81@uomosul.edu.iq ekmah2016@gmail.com
8. Course Objectives	
Course Objectives	<p>The course describes the basic knowledge in psychiatry to the medical students in order to build the clinical knowledge and clinical skills in their future practice in diagnosis and treatment of the different psychiatric disorders including the emergent conditions, so optimize the medical services to the society. By the end of this course, students will be able to:</p> <p>1. Knowledge: K1: Identify the causes of the psychiatric disorders (KP1, KP2, KP3) . K2: Recognize the general principles of psychiatric disorders and Explain the management plans for the psychiatric disorders (KP1, KP2, KP3, KP4, KP5, KP6). K3: Describe the new techniques of psychiatric rehabilitation (KP7, KP8).</p> <p>Skills: S1: Realize the best method of taking the Psychiatric history, able to perform a mental state examination and training on ECT (how to prepare patients for ECT sessions) (PC1, PC2, PC4, PC5). S2: Differentiate between different types of psychiatric disorders, examining different patients with different mental disorders and differentiating</p>

	<p>between the psychiatric manifestations of psychiatric or organic causes (PC3, PC6, PC7, PC8, PC9).</p> <p>3. Attitudes: A1: Recognize any ethical problems in relation to the topics and act accordingly (CSP1, CSP2, CSP3, ETW1). A2: Recognize the importance of respect of the patient's dignity and privacy (CSP4, CSP6, ETW2).</p>
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • Large group teaching (theoretical lectures): two lectures per week. • Clinical training: students divided into small groups (8–10 each) in hospitals for patient examination and application of theoretical knowledge. • Bedside teaching and team-based learning sessions.
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-2	2	Introduction to psychiatric disorders.	Introduction, classification and etiology	Lectures + Clinical training	Theoretical and Clinical exam
3-4	2	Evaluation of Neurodevelopmental Disorders.	Neurodevelopmental Disorders	Lectures + Clinical training	Theoretical and Clinical exam
5-6	2	Differentiation between Schizophrenia Subtypes	Schizophrenia Spectrum and Other Psychotic Disorders	Lectures + Clinical training	Theoretical and Clinical exam
7-8	2	Types and management of bipolar disorders	Bipolar and Related Disorders	Lectures + Clinical training	Theoretical and Clinical exam
9-11	3	Various types of depressive disorders and their management plan	Depressive Disorders	Lectures + Clinical training	Theoretical and Clinical exam
12-14	3	Differentiate between different types of anxiety disorders and the first line of treatment.	Anxiety Disorders	Lectures + Clinical training	Theoretical and Clinical exam

15-17	3	Recognition, causes, diagnosis, Main clinical features of Obsessive-Compulsive and Related Disorders.	Obsessive-Compulsive and Related Disorders	Lectures + Clinical training	Theoretical and Clinical exam
18-19	2	Main clinical features of PTSD	Trauma- and Stressor-Related Disorders	Lectures + Clinical training	Theoretical and Clinical exam
20	1	Differential diagnosis of Dissociative Disorders	Dissociative Disorders	Lectures + Clinical training	Theoretical and Clinical exam
21	1	Evaluation of Somatic Symptom and Related Disorders	Somatic Symptom and Related Disorders	Lectures + Clinical training	Theoretical and Clinical exam
22	1	Main clinical features of Feeding and Eating Disorders	Feeding and Eating Disorders	Lectures + Clinical training	Theoretical and Clinical exam
23	1	Main clinical features of Elimination Disorders	Elimination Disorders	Lectures + Clinical training	Theoretical and Clinical exam
24	1	Main clinical features of Sleep-Wake Disorders	Sleep-Wake Disorders	Lectures + Clinical training	Theoretical and Clinical exam
25	1	Differentiating between different types of Sexual disorders	Sexual Dysfunctions	Lectures + Clinical training	Theoretical and Clinical exam
26	1	Definition of Gender Dysphoria	Gender Dysphoria	Lectures + Clinical training	Theoretical and Clinical exam
27	1	Differentiating between different types of impulse control disorders	Disruptive, Impulse-Control, and Conduct Disorders	Lectures + Clinical training	Theoretical and Clinical exam

28-30	3	Differentiating between different types of Substance-Related Disorders	Substance-Related and Addictive Disorders	Lectures + Clinical training	Theoretical and Clinical exam
31-32	2	Main clinical features of Neurocognitive Disorders	Neurocognitive Disorders	Lectures + Clinical training	Theoretical and Clinical exam
33	1	Main clinical features of Personality Disorders	Personality Disorders	Lectures + Clinical training	Theoretical and Clinical exam
34	1	Main clinical features of Paraphilic Disorders	Paraphilic Disorders	Lectures + Clinical training	Theoretical and Clinical exam
35	1	Differentiating between different types of psychiatric disorders in children	Child psychiatry	Lectures + Clinical training	Theoretical and Clinical exam
36	1	Definition of Forensic psychiatry	Forensic psychiatry	Lectures + Clinical training	Theoretical and Clinical exam
37	1	Differentiating between different types of psychiatric disorders in elderly	Old age psychiatry	Lectures + Clinical training	Theoretical and Clinical exam
38	1	Management plan of Suicide and deliberate self-harm	Suicide and deliberate self-harm	Lectures + Clinical training	Theoretical and Clinical exam
39	1	Differentiating between different types of psychiatric disorders in postpartum period	Women psychiatry	Lectures + Clinical training	Theoretical and Clinical exam
40	1	Definition of Global psychiatry	Global psychiatry	Lectures + Clinical training	Theoretical and Clinical exam

41-42	2	Differentiating between different types of Psychological treatment	Psychological treatment	Lectures + Clinical training	Theoretical and Clinical exam
43-45	1	Differentiating between different types of Drugs and other physical treatment	Drugs and other Physical treatment	Lectures + Clinical training	Theoretical and Clinical exam

11. Course Evaluation

- 20% mid-year theoretical examination
- 20% practical examination
- 60% final year examination

12. Learning and Teaching Resources

Required textbooks	-Oxford Handbook of Psychiatry 4th edition. -Shorter Oxford Text Book of Psychiatry 7th edition.
Main references	College library
Recommended books and references	-The Maudsley Prescribing Guidelines in Psychiatry 14th Edition. -New Oxford Textbook of Psychiatry 3rd edition.
Electronic Websites	References, pubmed, uptodate

Course Description Form

University of Mosul

College of Medicine

Department of Medicine

1. Course Name:	
Dermatology and Venereology	
2. Course Code:	
MCMd503	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
30/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total credit hours = 60 (Theoretical hours: 30hrs. /Practical hours: 30hrs.) Total Units:3	
7. Course administrator's name (mention all, if more than one name)	
Assist. Prof. Qasim salim	qasimalchalabi@uomosul.edu.iq
Assist. prof Anfal laith	anfalgasid@uomosul.edu.iq
Lecturer Safwan saleh	safwan.fathi@uomosul.edu.iq
Laecture Mohammed basil	m.alkhaiyat89@uomosul.edu.iq
Lecturer Ahmed manhal	ahmed.mannhal@uomosul.edu.iq
Assist. Lecturer Tamara thanoon	
8. Course Objectives	
Course Objectives	<p>To equip medical students with the foundational knowledge and clinical skills to diagnose, manage, and appropriately refer common dermatological conditions, while emphasizing the integral role of skin health in overall patient care and systemic disease recognition. By the end of this course, students will be able to:</p> <p>1. Knowledge:</p> <p>K1: Review skin anatomy and physiology and pathophysiology of common dermatological diseases affecting skin, mucosa, hair, and nails</p> <p>K2: Discuss the clinical features, diagnostic methods, required investigations, differential diagnosis, and therapeutic approaches (medical, surgical, laser, or</p>

	<p>phototherapy) of common dermatological diseases (e.g., skin infections, sexually transmitted diseases, atopic/seborrheic/contact dermatitis, pigmentary disorders, and skin tumors).</p> <p>K3: Recognize treatment complications and prognoses, enabling proper diagnosis and management of both common and emergency dermatological conditions in hospitals, outpatient clinics, and dermatology consultations.</p> <p>Skills:</p> <p>S1: Collect and present accurate patient information through history-taking and recognizing different dermatological signs through physical examination.</p> <p>S2: Interpret history and examination findings to establish differential diagnosis and then correct dermatological diagnoses</p> <p>S3: Identify necessary investigations, interpret results, and select appropriate treatments.</p> <p>3. Attitudes:</p> <p>A1: Actively engage in learning through discussions with instructors and peers.</p> <p>A2: Respect colleagues and adhere to ethical standards in patient interactions.</p> <p>A3: Work effectively in teams, demonstrating cooperation and leadership during group or practical sessions.</p>
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9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> • Large group teaching (theoretical lectures): two lectures per week. • Clinical training: students divided into small groups (8–10 each) in hospitals for patient examination and application of theoretical knowledge. • Bedside teaching and team-based learning sessions.
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-2	2	Explain skin layers and functions; recognize normal skin cells; introduction to dermatology.	Introduction	Lectures + Clinical training	Theoretical and Clinical exam
3-9	7	Understand mechanisms, clinical features, diagnosis, and treatment of skin infections.	Bacterial, viral, fungal & parasitic infections	Lectures + Clinical training	Theoretical and Clinical exam
10-19	10	Causes, risk factors, prevention, diagnosis, and treatment of eczema (atopic, seborrheic, contact).	Inflammatory skin diseases	Lectures + Clinical training	Theoretical and Clinical exam

20-21	2	Clinical signs, diagnosis, and treatment of hair and nail disorders.	Hair & nail disorders	Lectures + Clinical training	Theoretical and Clinical exam
22-23	2	Risk factors, clinical features, diagnosis, and treatment of STDs.	Sexually transmitted diseases	Lectures + Clinical training	Theoretical and Clinical exam
24-27	4	Causes, diagnosis, and treatment of pigmentation disorders; importance of early detection of skin cancer.	Pigmentary disorders, skin cancer, hereditary diseases	Lectures + Clinical training	Theoretical and Clinical exam
28-30	3	Recognition, causes, diagnosis, and treatment of chronic pruritus.	Pruritus & related diseases	Lectures + Clinical training	Theoretical and Clinical exam

12. Course Evaluation

- 20% mid-year theoretical examination
- 20% practical examination
- 60% final year examination

13. Learning and Teaching Resources

Required textbooks	Clinical Dermatology, 4th Edition by Richard Weller, John A.A. Hunter, John Savin.
Main references	Fitzpatrick's Color Atlas and Synopsis of Clinical Dermatology, 8th Edition by Klaus Wolff, Richard Allen Johnson, Arturo Saavedra
Recommended books and references	- Peer-reviewed journals (PubMed indexed) - Online resources (DermNet NZ)
Electronic References, Websites	Google classroom platform https://dermnetnz.org/

Course Description Form

University of Mosul

College of Medicine

Department of Surgery

1. Course Name:	
Surgery	
2. Course Code:	
MCSu504	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
24/10/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total=150 hours/8 unit (90 hours theory and 60 hours practical) (6 unit for theory) (2 unit for practical)	
7. Course administrator's name (mention all, if more than one name)	
Assist. Prof. Dr. Ziad Tariq Mahmood	ziadtariqmahm@uomosul.edu.iq
8. Course objectives	
Course Objectives	<p>This course includes surgery and its branches. It includes introducing students to basic surgical skills that allow them to study and analyze clinical cases. In order to provide humane health care for patients and raise the efficiency of students scientifically and practically by providing students with the academic medical information necessary to diagnose common and emergency surgical cases with a focus on the students' ability to develop clinical skills and explain the ethical principles in dealing with the patients.</p> <p>Students at the of this course will be able to:</p> <p>Knowledge:</p> <p>K1: Recognize the basic theoretical and practical rules of surgery and its branches to reach a familiar formula for diagnosis and dealing with cases.</p> <p>K2: mention the appropriate method for taking the medical history of the clinical case.</p> <p>Skills</p> <p>S1: Apply the basic rules in clinical examination and analysis of common surgical cases, taking into account the behaviors and peculiarities of patients.</p> <p>S2: implement the knowledge you learned in analyzing patients presenting complaint and symptoms properly</p> <p>S3: perform an appropriate and systemic examination on neurological, vascular, respiratory and other systems of the body</p> <p>S4: breakdown the various accumulative information obtained from history, general and local examination, and investigations to reach to an appropriate diagnosis or differential diagnosis.</p> <p>Attitude</p> <p>A1: Activate scientific information and reinforce it with clinical information</p> <p>A2: Value communicative and examining skills as a core component of surgical care</p>

A3: Exhibit confidence in creating a management plan for the patient in order to reach cure safely and effectively.

9. Teaching and Learning Strategies

Strategy
Theoretical Lectures
Small group discussion in practice

10. Course Structure

Week	Theoretic Hours	practical Hours	Main Learning Outcome	Subject Name	Learning method	Evaluation method
12	12	3	1- Reminder about anatomy, embryology and physiology of respiratory, vascular and cardiac systems 2- Knowledge on the main diseases of these systems 3- Diagnose and treat most common emergencies and disorders	Cardio-thoracic and vascular surgery	Theoretic al lectures and clinical sessions	1- Short essay exam 2- MCQs 3- Clinical examination 4- Slides examination
45	45	6	1- Reminder about the histology and embryology of the skeletal structure 2- Pathogenesis, diagnosis and treatment of various fractures and soft tissue injuries 3- Diagnose bone diseases and tumors and how to treat them	Orthoped ics	Theoretic al lectures and clinical sessions	1- Short essay exam 2- MCQs 3- Clinical examination 4- Slides examination
10	10	3	1- Anatomy, physiology and development of the nervous system 2- How to diagnose and treat various neurological diseases 3- How to diagnose and treat different neurological, spinal and brain injuries 4- How to examine the patient's neurological system	Neuro-surgery	Theoretic al lectures and clinical sessions	1- Short essay exam 2- MCQs 3- Clinical examination 4- Slides examination

4	4	3	<ul style="list-style-type: none"> 1-Principles of local and general anesthesia 2-How to induce, maintain and recover from anesthesia 3-How to monitor a patient under anesthesia 4-Diagnose complications of anesthesia and how to avoid and treat them 	Anesthesia and intensive care	Theoretical lectures and clinical sessions	<ul style="list-style-type: none"> 1- Short essay exam 2- MCQs 3- Clinical examination 4- Slides examination
2	2	0	<ul style="list-style-type: none"> 1- Identifying a patient in shock 2- How to perform cardiopulmonary resuscitation 3- Principles of management of trauma 	Emergency medicine	Theoretical lectures and clinical sessions	<ul style="list-style-type: none"> 1- Short essay exam 2- MCQs 3- Clinical examination 4- Slides examination
6	6	3	<ul style="list-style-type: none"> 1- Embryological development of the fetus 2- Pathogenesis of various congenital malformations affecting human beings and how to diagnose and treat them 3- Diagnosis and management of pediatric surgical emergencies 	Pediatric surgery	Theoretical lectures and clinical sessions	<ul style="list-style-type: none"> 1- Short essay exam 2- MCQs 3- Clinical examination 4- Slides examination
4	4	3	<ul style="list-style-type: none"> 1- Principles of plastic surgery and definition of beauty 2- Diagnosis and treatment of various diseases of the skin 3- Staging and grading of burns and how to treat them 	Plastic surgery	Theoretical lectures and clinical sessions	<ul style="list-style-type: none"> 1- Short essay exam 2- MCQs 3- Clinical examination 4- Slides examination

11. Course Evaluation

20% mid-year examination
20% clinical course practical examination
60% final year examination

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1-Bailey & Love Short Practice of Surgery textbook. 2--Browse Textbook of Clinical Examination.
Main references (sources)	1. Adam's Outlines of Fractures 2. Adam's Outlines of Orthopedic 3. Schwarts principles of surgery 4. Sabiston and Spencer textbook of surgery
Recommended books and references (scientific journals, reports...)	College library
Electronic References, Websites	https://mmed.uomosul.edu.iq/ www. Who.org

Course Description Form

University of Mosul

College of Medicine

Department of Surgery

1. Course Name:	
Ophthalmology	
2. Course Code:	
MCSu505	
3. Semester / Year:	
First and second semester 2025-2026	
4. Description Preparation Date:	
1-9-2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 hours / 3 units	
7. Course administrator's name (mention all, if more than one name)	
Ass. Prof Azzam Abdel Qader Ahmed	azzamabdahm@uomosul.edu.iq
Lecturer. Zubaida Saad Ahmed	Zubaida_ahmed@uomosul.edu.iq
Lecturer. Alaa Maher Aziz	maher.azeez@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>Upon successful completion of this course, the student should be able to:</p> <p>Knowledge:</p> <p>K1: Describe the fundamental anatomy and physiology of the visual system. (KP1)</p> <p>K2: Explain the etiology, pathogenesis, and clinical presentation of common ophthalmic diseases. (KP1)</p> <p>K3: Outline the basic principles of managing common ophthalmic emergencies. (PC7)</p> <p>Skills:</p> <p>S1: Gather a focused ophthalmic history from patients in an organized manner. (PC1)</p> <p>S2: Conduct a basic ophthalmic examination, including visual acuity testing, pupillary assessment, and extraocular muscle movement evaluation. (PC1)</p> <p>S3: Perform basic slit-lamp examination techniques. (PC5)</p> <p>Attitude:</p> <p>A1: Demonstrate respect and empathy when interacting with patients with visual impairments. (CSP4)</p> <p>A2: Collaborate effectively with team members in managing patients with systemic diseases with ophthalmic manifestations. (ETW3)</p>
9. Teaching and Learning Strategies	
<ul style="list-style-type: none"> • Theoretical lectures • Direct contact with clinical cases in outpatient clinics • Training on different ophthalmic instruments • Power point presentations of images for common and urgent conditions • Video presentations of the common ophthalmic surgical procedures 	

10.Course Structure

Week]	Theoretical Hours	Subject Name	Main Learning Outcome	Learning method	Evaluation method
1	1	Introduction to ophthalmology	•Identify the gross anatomy and physiology of the main diagnostic devices in ophthalmology	lectures	Written exam; mid-year and final exam
2-3	2	Eyelid	•Evaluate and treat patient with common eyelid diseases	lectures	Written exam; mid-year and final exam
4	1	Conjunctiva	•Identify and treat common conjunctival diseases	lectures	Written exam; mid-year and final exam
5-6	2	Cornea	•Describe anatomical and physiological corneal concepts in relevance to the clinical practice. •Make algorithmic approach to deal with different corneal diseases	lectures	Written exam; mid-year and final exam
7	1	Sclera	•Develop a plan of management for Episcleritis and scleritis	lectures	Written exam; mid-year and final exam
8	1	Orbit	•Make an approach to deal with different orbital diseases	lectures	Written exam; mid-year and final exam

9	1	Lacrimal system	<ul style="list-style-type: none"> •Evaluate and treat patient with dacryoadenitis or dacryocystitis. •Illustrate the important causes of watery eye. •Assess dry eye and treat the condition. 	lectures	Written exam; mid-year and final exam
10-11	2	Lens	<ul style="list-style-type: none"> •Illustrate the types of cataracts, cause and management •Discuss the causes of ectopia lentis and its possible complications 	lectures	Written exam; mid-year and final exam
12-13	2	Glaucoma	<ul style="list-style-type: none"> •Recognize anatomy and physiology of aqueous humor in relevance to glaucoma •Construct criteria toward defining glaucoma and its management 	lectures	Written exam; mid-year and final exam
14	1	Uveal tract	<ul style="list-style-type: none"> •Explain the various classifications of uveitis. •Evaluate and treat patient with uveitis. 	lectures	Written exam; mid-year and final exam
15-16	2	Retina	<ul style="list-style-type: none"> •Discuss the fine anatomy of the retina •Explain the risk factors and pathogenesis of retinal diseases •Evaluate and treat common retinal diseases 	lectures	Written exam; mid-year and final exam
17	1	Laser and vitreous	<ul style="list-style-type: none"> •Identify the physics of the laser and its clinical use in ophthalmology •Discuss main causes of vitreous hemorrhage and its management 	lectures	Written exam; mid-year and final exam
18	1	Refractive errors	<ul style="list-style-type: none"> •Recognize the common types of refractive errors like myopia, hyperopia, and astigmatism and options available to treat it 	lectures	Written exam; mid-year and final exam
19-20	2	Strabismus	<ul style="list-style-type: none"> •Explain the anatomy and physiology of extraocular muscles 	lectures	Written exam;

			•Assess and treat common and special types of strabismus		mid-year and final exam
21	1	Red eye	•Establish differential diagnoses of red eye and its management	lectures	Written exam; mid-year and final exam
22-23	2	Neuroophthalmology	•Diagnose the common cranial nerve palsies and optic nerve diseases and the important systemic workup required for these cases	lectures	Written exam; mid-year and final exam
24	1	Systemic disease and the eye	•Discuss the ocular manifestations of some systemic diseases •Describe side effects of some drugs on the eye.	lectures	Written exam; mid-year and final exam
25	1	Ophthalmic emergencies	•Assess and treat patient with trauma	lectures	Written exam; mid-year and final exam
26	1	Headache and facial pain	•Differentiate between primary and secondary headache •Make algorithm for diagnosis of headache	lectures	Written exam; mid-year and final exam
27	1	Pathology and intraocular tumors	•Recognize the most common ocular and orbital tumors that require special attention.	lectures	Written exam; mid-year and final exam
28	1	Recent topics in ophthalmology	•Know most updated subjects in ophthalmology	lectures	Written exam; mid-year and final exam
29-30	2	Differential diagnosis of visual loss	•Identify the important and common causes for acute and gradual loss of vision and manage them	lectures	Written exam; mid-year and final exam

	Practical Hours				
	30 hours	Clinical training	Perform proper clinical examination by using slit lamp -Assess the vision by using Snellen chart -Examine the posterior segment of the eye by using direct and indirect ophthalmoscope -Examine the pupillary reflexes and ocular motility -Interpret different ophthalmic investigations	Large group teaching and clinical outpatient clinic training	Oral examination Clinical examination

11. Course Evaluation

1. Clinical assessment (20%)

2. Theoretical assessment (80%) (20% for mid-year examination, 60% for end of year examination)

1. Multiple choices questions
2. Essay
3. Problem solving
4. OSCE

12. Learning and Teaching Resources

Required textbooks (curricular books, if any):	KANSKI'S Clinical Ophthalmology a Systematic Approach Ninth Edition
Main references (sources):	2022-2023 Basic and Clinical Science Course: American academy of ophthalmology
Recommended books and references (scientific journals, reports...):	<ul style="list-style-type: none"> • Optics of the eye: by Elkington, Clinical Optics • The Wills Eye Manual (Office and Emergency Room Diagnosis and Treatment of Eye Disease) 8th EDITION • Oxford handbook of ophthalmology 4th edition
Electronic References, Websites:	www.aao.com

Course Description Form

University of Mosul

College of Medicine

Department of Surgery (ENT)

1. Course Name:	
Otolaryngology	
2. Course Code:	
MCSu506	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 Hours/ 3 Units	
7. Course administrator's name (mention all, if more than one name)	
Prof Ali Abdulmuttalib	aliabdmutt@uomosul.edu.iq
Prof Basil Mohammed Nather Saeed	basilnather@uomosul.edu.iq
Prof Haitham Abdulmalik Alnori	Haithamabdnori@uomosul.edu.iq
Lecturer Mohammed Saad Azeez	mohsaadazeez@uomosul.edu.iq
Lecturer Sunmar Younus Hamed	sinmaryounisha@uomosul.edu.iq
Lecturer Baraa Mahir	baraamahaziz@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>This course aims to deliver the basic knowledge of ENT to the medical students To be able to build the clinical knowledge and clinical skills in the next years, Use this knowledge in the diagnosis and treatment of the different ENT diseases including the emergency conditions,</p> <p>Knowledge: K1: Demonstrate ENT diseases, effective communication skills essential for medical practice and importance of understanding ear, nose and throat diseases KP1, KP3, KP4, KP5. K2: apply the knowledge to solve clinical the problem that face students in practice KP6, KP7, KP8.</p> <p>Skills S1: Conduct a comprehensive history taking, physical ENT examination and interpretate the findings PC1, PC2. S2: Develop appropriate strategies to communicate effectively with patients in ear, nose and throat practice PC3, PC5. S3: Select the appropriate audiological test according to patients need PC5.</p> <p>.</p> <p>Attitude</p>

		A1: Demonstrate ethical behaviors and commitment skills, demonstrate respect to patients' privacy ETW1, ETW2, ETW3. A2: Exhibit confidence in ENT practice ETW4.			
9. Teaching and Learning Strategies					
Strategy	Theoretical Lectures Small group discussion in practice				
10. Course Structure					
Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-6	6	<ol style="list-style-type: none"> Describe the external and internal anatomy of the nose. Identify the boundaries, drainage pathways, and anatomical variations of the paranasal sinuses. Explain the physiological functions of the nasal cavity—air filtration, humidification, temperature regulation, and olfaction. Recognize key signs and symptoms of congenital nasal anomalies and traumatic conditions. Demonstrate basic diagnostic approaches (clinical examination, endoscopy, imaging indications). Appreciate the importance of early diagnosis in preventing complications (e.g., airway obstruction, meningitis, saddle nose deformity). Recognize key signs and symptoms of inflammation of nose and paranasal sinuses. Demonstrate basic diagnostic approaches (clinical examination, endoscopy, imaging indications). Appreciate the importance of early diagnosis in preventing complications (e.g., orbital complications, intracranial complications and osteomyelitis). 	Nose lectures	Theoretical Lectures and practical sessions	Mid year and final exam
7-12	6	<ol style="list-style-type: none"> Explain the embryology and surgical anatomy of the larynx. Describe the cartilages, muscles, blood supply, nerve supply, and lymphatic drainage. Discuss the physiology of phonation, respiration, and airway protection. Recognize major symptoms of laryngeal disease and their causes. Perform a structured assessment of patients with hoarseness or stridor. Select and interpret laryngeal diagnostic tools (indirect & direct laryngoscopy). Distinguish inspiratory, expiratory, and biphasic stridor clinically. 	Larynx lectures	Theoretical Lectures and practical sessions	Mid year and final exam

		<ol style="list-style-type: none"> 8. Apply anatomical knowledge in airway management and ENT practice. 9. Formulate differential diagnoses for common laryngeal presentations. 10. Identify red flags requiring urgent laryngeal evaluation 			
13 - 18	6	<ol style="list-style-type: none"> 1. List the subdivisions of the pharynx with their boundaries and contents 2. Explain the basic physiology of each part. 3. Describe important notes about the parapharyngeal and retropharyngeal spaces 4. Recognize common symptoms related to pharyngeal diseases 5. Outline first-line management for each stomatitis subtype 6. Define Laryngopharyngeal reflux (LPR) and summarize management 7. Define Globus pharyngeus and describe management. 8. Define pharyngitis and distinguish acute vs chronic forms. 9. Classify causes into infectious and non-infectious, and identify common viral and bacterial pathogens. 10. Recognize the clinical features of simple viral pharyngitis, acute streptococcal pharyngitis, diphtheria, and infectious mononucleosis. 11. Differentiate between viral and bacterial pharyngitis based on history, examination, and investigations. 	Pharynx lectures	Theoretical Lectures and practical sessions	Mid year and final exam
19 - 30	1 2	<ol style="list-style-type: none"> 1. Describe the anatomy of the external, middle, and internal ear, including all major structures and their functions. 2. Identify the components of the tympanic membrane, distinguish pars tensa from pars flaccida, and recognize normal anatomical landmarks. 3. Explain the anatomical features of the middle ear cleft, including its walls, ossicles, muscles, and nerve supply. 4. Discuss the structure, function, and physiology of the Eustachian tube. 5. Define acute suppurative otitis media and describe its etiology, routes of infection, and predisposing factors. 6. Identify the common bacterial organisms causing AOM. 	Ear lectures	Theoretical Lectures and practical sessions	Mid year and final exam

	<p>7. Recognize and differentiate the clinical stages of acute otitis media based on symptoms and otoscopy findings.</p> <p>8. Explain the management principles of AOM, including antibiotics, analgesia, decongestants, and indications for myringotomy.</p> <p>9. Describe the complications of AOM.</p>			
11. Course Evaluation				
<p>20% mid-year examination</p> <p>20% course practical examination</p> <p>60% final year examination</p>				
12. Learning and Teaching Resources				
Required textbooks (curricular books, if any)	<i>Logan Turner's Diseases of the Nose Throat and Ear, Head and Neck Surgery.</i>			
Main references (sources)				
Recommended books and references (scientific journals, reports...)	<p>Hall and Colman's diseases of the ear, nose and throat.</p> <p>Lecture notes on Diseases of the Ear Nose and Throat.</p>			
Electronic References, Websites	<p>1 . UpToDate UpToDate.com</p> <p>2. PubMed https://pubmed.ncbi.nlm.nih.gov</p>			

Course Description Form

University of Mosul

College of Medicine

Department of Pediatrics

1. Course Name:	
Pediatrics	
2. Course Code:	
MCPe507	
3. Semester / Year:	
2025-2026	
4. Description Preparation Date:	
First and second 1/9/2025	
5. Available Attendance Forms:	
In-person attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical hours: 60 hr. Practical hours: 60 hr. Units: 6	
7. Course administrator's name (mention all, if more than one name)	
Dr. Aws Al-numan	Awshazimah72@uomosul.edu.iq
Dr. Mazen Al-saraf	mmf@uomosul.edu.iq
Dr. Rekan sulaiman	Rikan.sulaiman@uomosul.edu.iq
Dr. Jessar Saleem Hasan	jalbedawi@uomosul.edu.iq
Dr. .Noor Sameer Yahya	noorsya@uomosul.edu.iq
Dr. Omar yahya	oya@uomosul.edu.iq
Dr. Ahmed saad	Ahmed.dewachi@uomosul.edu.iq
Dr. Ghaith wathah	gwh@uomosul.edu.iq
Dr. Farah Sameer yahya	fsy@uomosul.edu.iq
Dr. Nawar Yahya ahmed	nya@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>This course aims to provide students with adequate information and training in child health, effective communication skills, and acute/chronic disease management, where students at the end of this course will be able to:</p> <p>Knowledge:</p> <p>K1: Demonstrate the nutritional needs of specific pediatric populations, effective communication skills essential for clinical practice, and the importance of understanding normal child development (KP1, KP3, KP6).</p> <p>K2: Identify common childhood infections, fluid and electrolyte disorders, and barriers to effective communication skills, in addition to identifying common developmental milestones.</p> <p>Skills</p>

	<p>S1: Conduct a comprehensive pediatric history and physical assessment and provide the patient with evidence-based counseling on immunizations and growth charts for disease management and prevention.</p> <p>S2: Develop appropriate strategies to communicate effectively with children and their parents in general and special medical contexts.</p> <p>S3: Select the appropriate diagnostic and therapeutic plan for a given clinical presentation and its limitations so that they will be able to properly understand these sciences and their applications when practicing medicine and conducting health and medical research.</p> <p>Attitude</p> <p>A1: Value child health and communication skills as a core component of medical care</p> <p>A2: Exhibit confidence in interpreting growth and developmental assessment for research.</p>
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9. Teaching and Learning Strategies

Strategy	<p>Theoretical: large group teaching: 3 lectures/week</p> <p>Practical: The students are divided into small groups of 10-15 students in the hospital</p>
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-3	10	<p>1-Define the normal physiological adjustments that occur in the cardiovascular and respiratory systems during the transition from fetal to extra-uterine life.</p> <p>2-Recognize the clinical signs, critical laboratory findings, and immediate risk factors associated with life-threatening neonatal conditions, such as sepsis and severe hypoglycemia.</p> <p>3-Describe the mechanism, types, and primary indications for the management of unconjugated and conjugated</p>	Neonatology	Theory & Practice sessions	Quizzes Mid & final examinations

		<p>hyperbilirubinemia (neonatal jaundice).</p> <p>4-Construct an initial diagnostic workup and a comprehensive differential diagnosis for a preterm neonate presenting with feeding intolerance and abdominal distension.</p> <p>5-Apply the standardized APGAR scoring system and the basic principles of thermoregulation and neonatal resuscitation to the immediate care and stabilization of a newborn in the delivery room.</p>			
5-4	5	<p>1-Define the anatomical and physiological differences between the pediatric and adult airways that predispose children to specific respiratory distress syndromes.</p> <p>2-Recognize the key signs of respiratory distress severity in infants and children, including retractions, nasal flaring, and stridor/wheezing.</p> <p>3-Describe the pathophysiology, clinical presentation, and evidence-based management of common pediatric respiratory conditions, such as asthma and bronchiolitis.</p> <p>4-Construct a differential diagnosis for a child presenting with chronic cough or recurrent pneumonia, considering</p>	Respiratory disorders	Theory & Practice sessions	Quizzes Mid & final examinations

		<p>both infectious and non-infectious etiologies.</p> <p>5-Apply the principles of inhaled medication delivery (e.g., nebulizers, spacers) and oxygen therapy based on the child's age and clinical respiratory status.</p>			
9-6	7	<p>1-Define the key signs and differentiate between mild, moderate, and severe dehydration in an infant or child due to acute gastroenteritis.</p> <p>2-Recognize the clinical and radiological features suggestive of an acute surgical abdomen in children, such as intussusception or appendicitis.</p> <p>3-Describe the pathogenesis, diagnostic criteria, and current dietary management recommendations for celiac disease and other common pediatric malabsorption syndromes.</p> <p>4-Construct an initial diagnostic approach for an infant presenting with persistent vomiting, distinguishing between infectious, obstructive, and metabolic causes.</p> <p>5-Apply the principles of Oral Rehydration Therapy (ORT) and</p>	Gastro-intestinal disorders	Theory & Practice sessions	Quizzes Mid & final examinations

		<p>maintenance fluid calculations for a child being managed for acute diarrheal illness.</p>			
10-1	6	<p>1-Define the normal fetal circulation pathway and the critical changes that occur in the cardiac structure and function immediately after birth.</p> <p>2-Recognize the characteristic clinical findings (e.g., murmurs, cyanosis, differential pulses) that suggest the presence of specific congenital heart defects (CHDs).</p> <p>3-Describe the hemodynamics, natural history, and surgical/interventional management options for common acyanotic and cyanotic heart lesions (e.g., VSD, Tetralogy of Fallot).</p> <p>4-Construct an initial evaluation plan and risk stratification for a pediatric patient presenting with symptoms suggestive of an arrhythmia or syncope.</p> <p>5-Apply the principles of fluid management and cardiac drug calculations (e.g., diuretics, inotropes) in the context of a child with congestive heart failure.</p>	Cardiovascular system	Theory & Practice sessions	Quizzes Mid & final examinations

12-1	6	<p>1-Define the principles of immunization, including the concepts of herd immunity, vaccine schedules, and contraindications in children.</p> <p>2-Recognize the critical clinical and laboratory features that distinguish between bacterial, viral, and fungal infections in a hospitalized child.</p> <p>3-Describe the common routes of transmission, incubation periods, and isolation precautions required for managing highly contagious pediatric illnesses (e.g., Varicella, Measles).</p> <p>4-Construct an initial empiric antibiotic regimen for a child presenting with fever of unknown origin (FUO) or suspected bacterial meningitis, considering local resistance patterns.</p> <p>4-Apply the criteria for diagnosis and the appropriate antimicrobial therapy for common community-acquired infections, such as otitis media and pharyngitis.</p>	Infectious diseases vaccination	Theory & Practice sessions	Quizzes Mid & final examinations
16-1	5 2	1-Define the major developmental milestones across different domains (gross	Neurology disorders	Theory & Practice sessions	Quizzes Mid & final examinations

		<p>motor, fine motor, language, social-emotional) from birth through school age.</p> <p>2-Recognize the clinical patterns and immediate management priorities for various types of acute seizures in children, including febrile seizures and status epilepticus.</p> <p>3-Describe the common etiologies, presentation, and diagnostic approach for a child presenting with headaches, distinguishing between migraine and tension-type headaches.</p> <p>4-Construct an appropriate neurodevelopmental screening and initial workup plan for a toddler suspected of having a global developmental delay or cerebral palsy.</p> <p>5-Apply the Glasgow Coma Scale (GCS) appropriately to assess the level of consciousness and monitor changes in a pediatric patient with an acute head injury.</p>	Immunological disorders		
20-2	6	<p>1-define the classification and common presenting symptoms of the most frequent childhood malignancies, particularly Acute Lymphoblastic Leukemia (ALL).</p> <p>2. Recognize the critical laboratory findings (e.g., severe</p>	Hematology and oncology	Theory & Practice sessions	Quizzes Mid & final examinations

		<p>anemia, abnormal white blood cell count, low platelet count) that necessitate an immediate workup for underlying hematological disorders.</p> <p>3-Describe the inheritance patterns, pathophysiology, and clinical consequences of common pediatric hemoglobinopathies, such as Sickle Cell Disease and Thalassemia.</p> <p>4-Construct an initial diagnostic approach for a child presenting with unexplained bruising, petechiae, or prolonged bleeding time.</p> <p>5-Apply the basic principles of blood product administration and transfusion reactions when managing a severely anemic or thrombocytopenic pediatric patient.</p>			
-262	5	<p>1-Define the normal physiological process of puberty and the criteria used to differentiate between precocious and delayed puberty.</p> <p>2-Recognize the classic clinical presentation (e.g., polyuria, polydipsia, weight loss) and metabolic derangements</p>	Endocrinology	Theory & Practice sessions	Quizzes Mid & final examinations

		<p>associated with new-onset Type 1 Diabetes Mellitus.</p> <p>3-Describe the common etiologies, diagnostic workup, and appropriate replacement therapy for children presenting with growth failure or short stature.</p> <p>4-Construct an initial management plan for a pediatric patient in diabetic ketoacidosis (DKA), including fluid resuscitation and insulin administration protocols.</p> <p>5-Apply the basic screening guidelines and interpretation of thyroid function tests (TFTs) in a newborn to screen for congenital hypothyroidism.</p>			
29-2	6	<p>1-Define the criteria for diagnosis and the typical electrolyte and volume disturbances associated with acute kidney injury (AKI) in children.</p> <p>2-Recognize the classic triad of symptoms (edema, proteinuria, hypoalbuminemia) that characterize the presentation of nephrotic syndrome in a pediatric patient.</p> <p>3-Describe the common etiologies, diagnostic imaging, and management strategies for children</p>	Renal diseases	Theory & Practice sessions	Quizzes Mid & final examinations

		<p>presenting with recurrent urinary tract infections (UTIs) and vesicoureteral reflux (VUR).</p> <p>4-Construct a structured plan for evaluating the cause of hematuria or proteinuria detected on routine urinalysis in an otherwise asymptomatic child.</p> <p>5-Apply the principles of fluid restriction and judicious diuretic use in managing a child with severe fluid overload secondary to acute post-streptococcal glomerulonephritis.</p>			
30	2	<p>1-Define the classification criteria and core clinical features that differentiate the various subtypes of Juvenile Idiopathic Arthritis (JIA).</p> <p>2-Recognize the key signs and symptoms (e.g., rash, fever, arthritis) that suggest a systemic inflammatory process or a vasculitis syndrome in a child.</p> <p>3-Describe the pathogenesis, systemic manifestations, and multi-disciplinary management strategies for Systemic Lupus Erythematosus (SLE)</p>	Rheumatological disorders	Theory & Practice sessions	Quizzes Mid & final examinations

		in the pediatric population. 4-Construct an initial diagnostic workup plan for a child presenting with unexplained persistent musculoskeletal pain, evaluating both inflammatory and mechanical causes			
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11. Course Evaluation

midyear exam: 50% (25 practical, 25 theoretical)

Final exam: 50% (theoretical only).

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Nelson Essentials of Pediatrics (ninth edition) 2023
Main references (sources)	Illustrated Textbook of Pediatrics (sixth edition) 2022
Recommended books and references (scientific journals, reports...)	NICE guidelines, ROME IV Criteria, and PAD guidelines 2022 (Important research and articles related to the subject included in the lectures)
Electronic References, Websites	

Course Description Form

University of Mosul

College of Medicine

Department of Obstetrics & Gynecology

1. Course Name:	
Gynecology	
2. Course Code:	
MCOg508	
3. Semester / Year:	
2026-2025	
4. Description Preparation Date:	
2025\10\10	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total credit hours = 120 (Theoretical hours: 60 hrs./Practical hours: 60 hrs.) Total Units: 6	
7. Course administrator's name (mention all, if more than one name)	
Assit. Prof. Ahmed Jasim Mohammed A Hussein	ajm@uomosul.edu.iq
Prof. Raida Muhammed Al-Wazzan	rmw@uomosul.edu.iq
Dr. Baraa Lukman Mohammed Email	bim@uomosul.edu.iq
Dr. Saja Abdulbary Aljawady	saa@uomosul.edu.iq
Dr. Asma Abdul Razzaq Al-Sanjari	asmaaabdulrazaq@uomosul.edu.iq
Dr. Hiba Ahmed Suhail	Hiba.suhail@uomosul.edu.iq
Dr. Roaa Abdul-Jabbar	roaa.abduljabbar@uomosul.edu.iq
Dr.Aseel Basim	Aseel.basim@uomosul.edu.iq
Dr.Aminal Zakarya	azs@uomosul.edu.iq
DR.Haeel anwar	hadeel.anwar@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The primary goal of this course is to provide students with foundational knowledge of the scientific foundations in gynecology topics and practical material This integration is crucial for applying facts to patient examination and understanding clinical conditions. By the end of this course the students will be able to:</p> <p>Knowledge:</p> <p>K1: Demonstrate and apply knowledge related to the fundamental principles of anatomy and physiology of the female reproductive system tissue types, structural organization (KP1)</p> <p>K2: Describe in detail the basics of diseases affecting the female reproductive system, including infections affecting the female reproductive system, menstrual disorders, disorders that occur after menopause (KP1).</p> <p>K3: Integrate knowledge with clinical practice. This includes Performing a proper physical examination of a patient and understanding the clinical signs and symptoms that appear when tumors that affect the female</p>

reproductive system of both benign and malignant types, in addition to gynecological diseases that affect girls in childhood and adulthood. (KP1).

Skills

S1: Properly perceive history from gynaecological patients. Establish gynecological examination including digital, bimanual, and speculum examination (models) at skill lab. (PC1).

S2: establish how to take a cervico-vaginal swabs and (Pap) smear, demonstrate the results of a semen analysis and HSG (reports & photos) (PC1).

S3: Insertion and removal of IUD and Implanon on (models) at skill lab. (PC1).

Attitude

A1: Participant actively in learning by engaging in discussions with both the lecturer and fellow students. (CSP1).

A2: respect colleagues and behave according to ethical standards when working with plastinated cadaveric specimens, acknowledging their importance in learning and the dignity of the human body. (ETW1).

A3: Work effectively in a team, demonstrating both collaboration and leadership skills during group activities or practical sessions. (ETW3)

9. Teaching and Learning Strategies

Strategy

- large group teaching: (theoretical lectures) 2 lectures / week
- Practical Clinical training sessions: The students are divided into small groups each of 10-15 students.
- Training in the skills laboratory at the Faculty of Medicine.
- Urging students to expand through internationally approved Internet resources

10. Course Structure

Weeks	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-3	15	1-Describe Embryology, normal development of female genital tract 2-Describe Mullerian duct abnormalities 3-Discuss Disorders of sexual development 4-Understand Gynecological problems in Neonate And Childhood, its diagnosis and management 5-Describe-Puberty including changes and its disorders	Embryology, development of female genital tract Neonate & Puberty	Theory & Practice session	End of clinical course exam (Osce) Mid&final examinations
		1-Recite the types,	Disorders of	Theory &	End of clinical

4-6	18	treatment of primary amenorrhea 2-Recite the types, treatment of secondary amenorrhea 3-Discuss types of Dysmenorrhea and PMS 4-Discuss AUB 5-understand the causes, diagnosis And management of abnormal bleeding	menstrual bleeding	Practice sessions	course exam (Osce) Mid&final examinations
6-7	9	1-Underline etiology of Infection in gynecology , lower genital tract infection 2-Describe Upper Genital tract infection (PID), 3-Discuss STD related Problems	Infection in gynecology	Theory & Practice Sessions	course exam (Osce) Mid&final examinations
7-8	8	1-Discuss the magnitude of the subfertility problem 2-Describe ART benefits and success	Subfertility	Theory & Practice Sessions	course exam (Osce) Mid&final examinations
9	6	-Label causes of virilism and hirsutism and management	PCOS , Hirsutism & Virilism	Theory & Practice Sessions	course exam (Osce) Mid&final examinations
10	4	1-describe effects of endometriosis and adenomyosis on quality of life 2-explain chronic pelvic pain causes and effects	Endometriosis , Adenomyosis	Theory & Practice Sessions	course exam (Osce) Mid&final examinations
11	4	1-discuss menopause regarding its physiology and symptoms 2-Discuss-post-menopausal bleeding	Menopause	Theory & Practice Sessions	course exam (Osce) Mid&final examinations
12-	9	1-list the pathology of benign cervical disease	diseases of Cervix	Theory & Practice Sessions	course exam (Osce) Mid&final examinations

1 3		2-Emphasis-on-screening of premalignant disease- and early recognition 3- list the pathology of cervical cancers			
14	5	List-different-contraceptive methods: their uses, types	Contraception	Theory & Practice Sessions	course exam (Osce) Mid&final examinations
15	12	1-Understand-the-clinical Presentation of benign conditions 2- Discuss uterine fibroids 3- List pathology of uterine cancers	Diseases of uterus	Theory & Practice Sessions	course exam (Osce) Mid&final examinations
17	7	Describe pathologies of vulva and vagina	Benign and Malignant Conditions vulva and vagina	Theory & Practice Sessions	course exam (Osce) Mid&final examinations
18	4	Underline-types and management of incontinence	Urinary incontinence	Theory & Practice Sessions	course exam (Osce) Mid&final examinations
19	9	List pathology of ovarian tumors	Ovarian Tumors	Theory & Practice Sessions	course exam (Osce) Mid&final examinations
20	5	Underline the etiology, clinical presentation, diagnosis and management options for genital prolapsed	Genital Prolapse	Theory & Practice Sessions	course exam (Osce) Mid&final examinations
21	3	1-describe common gynecological operations 2- underline hormone therapy uses in gynecology	Gynecological surgery & Hormones	Theory & Practice Sessions	course exam (Osce) Mid&final examinations
2 2 2	2	1-Illustrate US benefits In practice 2-Discuss medico-legal Problems	Ultrasound & medicolegal Aspects in genecology	Theory & Practice Sessions	course exam (Osce) Mid&final examinations

11. Course Evaluation

End of course exam for clinical training (OSCE): 20 marks.
Mid-year theoretical exam. and end of year exam. : mid-year: 20 marks, end of year: 60 marks

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Gynecology By Ten Teachers Oxford Gynecology Gynecology illustrated
Main references (sources)	Lectures given by lecturers
Recommended books and references (scientific journals, reports...)	Studies of gynecology journals undergraduate
Electronic References, Websites	Gynecology Undergraduate programs like Medscape

Course Description Form

University of Mosul

College of Medicine

Department of Surgery

1. Course Name:	
Radiology	
2. Course Code:	
MCSu509	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total credit hours = 60 (Theoretical hours: 30 hrs./Practical hours: 30 hrs.) Total Units: 3	
7. Course administrator's name (mention all, if more than one name)	
Assist. Prof. Hadeel Mohamed Farook Ahmed	hadeelhiali_radio@uomosul.edu.iq
Dr. Dalya Abdulqader	dalyafalaki_radio@uomosul.edu.iq
Dr. Moammar Abdel Ghafoor	moamer.ibrahim@uomosul.edu.iq
Dr. Oqba Abdul-Nafi	oqba_dawood@uomosul.edu.iq
Dr. Dalal Ahmed Ramathan	dalal.ramadhan@uomosul.edu.iq
Dr. Enas Taha Mohammed	enas.mohammed@uomosul.edu.iq
Dr. Marwa Mohammed Salih Salman	Marwa.alrasheedy@uomosul.edu.iq
Dr. Sabreen Jabbar Alwan	sabreen.jabbar@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>This course includes diagnostic radiology and its introduction to radiological diagnostic skills that allow them to study and analyze clinical cases in order to provide health and humanitarian care to patients and raise the efficiency of students scientifically and practically by providing students with the academic medical information necessary to diagnose common or emergency cases with a focus on developing the student's ability to develop radiological diagnostic skills and explain the ethical principles in dealing with pathological cases and communication skills with the patient :</p> <p>Knowledge:</p> <p>K1: Demonstrate and apply knowledge related to the fundamental principle aspect of Radiology (e.g., image formation and their important radiological term , , accurate readings of image , recognize normal versus abnormal and ensure appropriate patient – centered imaging). (KP1).</p> <p>K2: Describe in detail the specific radiologic feature of the whole body system . (KP1).</p> <p>K3: Integrate radiologic knowledge with clinical practice and disease . (KP1).</p> <p>Skills</p> <p>S1: Locate the anatomical radiological structure of whole body system in a multi modality radiological examination (PC1).</p>

	<p>S2: Identify and differentiate normal and abnormal radiologic anatomical structures on standard X-ray images. (PC1).</p> <p>S3: correlate findings of examination by multi modality for specific pathological condition (PC1).</p> <p>Attitude</p> <ul style="list-style-type: none"> • A1: Actively participate in learning by engaging in discussions with lecturers and fellow students. (CSP1) . • A2: Demonstrate professional behavior and ethical responsibility during clinical practice. (ETW1) • A3: Show initiative in self-directed learning and continuous improvement in radiology skills. (ETW3)
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9. Teaching and Learning Strategies

	<ul style="list-style-type: none"> • large group teaching: (theoretical lectures) 2 lectures / week • Practical sessions: The students are divided into small groups each of 25 students. power point. X-ray , contrast , CT scan & MRI imaging films will be available to learn about different system & disease . • Team-based learning in practical sessions.
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-5	12	<p>Recognize technical consideration on different projections of chest radiography.</p> <p>1-Describe radiological anatomy on chest radiograph.</p> <p>2-Identify radiological signs of different lung pathologies.</p> <p>3-Differentiate between lung collapse and lung consolidation.</p> <p>4-Differentiate different Pleural diseases including total pleural effusion, encysted pleural effusion, pleural empyema & pleural tumor radiologically.</p> <p>5-identify & differentiate Pneumothorax, tension pneumothorax & Hydropneumothorax radiologically.</p> <p>6-Understand Emphysema radiologically.</p> <p>7-Describe Pulmonary tuberculosis radiologically.</p> <p>8-Define Lung abscess radiologically.</p> <p>9-Recognize Bronchiectasis radiologically.</p> <p>10-Discriminate Hydatid cyst radiologically.</p>	Radiology of the chest	Lectures + Practical sessions	Short assay OR MCQs + Practical spot exam

		<p>11-Differentiate between Bronchogenic carcinoma and secondary metastasis radiologically.</p> <p>12-Identify Congenital heart diseases radiologically.</p> <p>13-Understand Anterior mediastinal masses radiologically.</p> <p>14Neonatal respiratory distress syndrome and meconium aspiration</p>			
6-9	9	<ol style="list-style-type: none"> 1. Introduction to urinary tract imaging techniques 2. Ultrasound. 3. IVU & CTU. 4. Contrast medium and its excretion. 5. MRI. 6. Radionuclide examination. 7. Special techniques: 8. Retrograde and antegrade pyelography 9. Voiding cystourethrogram (micturating cystogram) and video urodynamics 10. Urethrography 11. Renal arteriography 12. Urinary tract disorders <ol style="list-style-type: none"> 1. Urinary calculi. 2. Urinary tract obstruction. 3. Urinary system tumors. 4. Urinary system infections. 5. Bladder disorders. 6. Vesico ureteric reflux. 7. Prostatic disorder. 8. Scrotum and testes disorders. 13. Congenital anomalies of the urinary tract: <ol style="list-style-type: none"> 1. Bifid collecting systems. 2. Ectopic kidney. 3. Horseshoe kidney 4. Inherited cystic disease of the kidneys 5. Renal agenesis. 6. Ureterocele. 7. Pelvi ureteric junction (PUJ) obstruction. 	Radiology of the urinary system	Lectures + Practical labs	Short assay OR MCQs + Practical spot exam

		8. Bladder exstrophy. 9. Posterior urethral valves (PUV). 14. US of the kidney 1. Normal renal system ultrasound 2. Renal system calculi 3. Renal tract obstruction 4. Acute pyelonephritis 5. Chronic pyelonephritis 6. Renal paranormal masses 7. Uretrocele			
10-14	11	1. can differentiate benign & malignant stricture of the esophagus. 2. can define achalasia radiologically. 3. can recognize esophageal web radiologically. 4. can identify the esophageal diverticulum & differentiate its types radiologically. 5. can describe esophageal varices radiologically. 6. can name the gastric & duodenal ulcers radiologically. 7. can identify infiltrative gastric tumor radiologically. 8. can distinguish the causes of Acute abdomen radiologically. 9. can define Intestinal obstruction & differentiate its types: Small bowel obstruction, large bowel obstruction & Sigmoid volvulus. 10. can show abdominal calcifications. 11. can recognize small bowel contrast study (barium follow through) & its normal appearance. 12. can state small bowel diseases: Celiac disease, Malabsorption syndrome & Crohn's disease radiologically. 13. can outline large bowel radiology: native & contrast study (barium enema) & its diseases including Ulcerative colitis, Toxic megacolon, Bowel tumor, Diverticulosis & Polyposis	Radiology of Gastro intestinal tract	Lectures + Practical sessions	Short assay OR MCQs + Practical spot exam

		14. can interpret Pediatric GIT radiology & its pathology including Intussusception, Hirschsprung's disease, Imperforated anus & Anorectal atresia.			
15-30	11	<ol style="list-style-type: none"> 1. To identify the normal radiological anatomy of the musculoskeletal system. 2. To recognize the radiological signs of bone disease. 3. To recall the different types of periosteal reaction. 4. To show the cortical thickening, alteration of the trabecular pattern of the bone. 5. To investigate the decrease in bone density. 6. To distinguish the radiological features of Osteoporosis, osteomalacia, rickets, hyperparathyroidism, osteogenesis imperfecta, osteopetrosis, developmental dysplasia of hip joint. 7. To evaluate alteration in the trabecular pattern and change in the shape of bone in diseases like chronic hemolytic anemia, osteochondroma. 8. To explain the radiological features of osteoarthritis, Ankylosing spondylitis, rheumatoid arthritis, gouty arthritis. 9. To illustrate the radiological features of osteochondritis. 10. To differentiate between the radiological features of benign and malignant bone tumors. <p>1.To explain the benefit of CT scan, MRI and scintigraphy in musculoskeletal imaging. 2.Understand basics of CT and MRI 3.Differentiate different types of Intracranial bleeds.</p>	Bone radiology + MRI of spine	Lectures + Practical labs	Short assay OR MCQs + Practical spot exam
	11		CT-MRI-imaging		

	4	<p>4. Identify cerebral Ischemic stroke on CT and MRI</p> <p>5.Recommend next step in managing ischemic stroke.</p> <p>6. Identify Congenital malformations of the brain and spine.</p> <p>7. Differentiate between different disc pathologies on MRI.</p> <p>8. Outline important signs of Orbital trauma</p> <p>9. Identify emergency condition on body imaging namely pulmonary embolism and abdominal aortic aneurysm.</p> <p>Breast imaging</p> <p>1. Mammography</p> <p>Criteria for image quality assessment.</p> <p>Adequate craniocaudal (CC) views.</p> <p>Adequate mediolateral oblique (MLO) views.</p> <p>Density of breast tissue.</p> <p>The main abnormal mammographic findings.</p> <p>Key mammographic signs of benign breast masses.</p> <p>Key mammographic signs of breast cancer.</p> <p>2.Breast Ultrasound</p> <p>Uses of Breast Ultrasound – brief.</p> <p>Benign breast lesion.</p> <p>Malignant breast lesion.</p> <p>Breast magnetic resonance imaging.</p> <p>Breast screening.</p>	Imaging of female breast		
	1	<p>1.Normal imaging (Ultrasound, CT scan ,MRI & PET /CT)</p> <p>2.Gynecological pathology :</p> <p>Pelvic masses</p> <p>Ovarian masses (ovarian cyst , ovarian tumor)</p> <p>Uterine masses(fibroids , endometriosis)</p> <p>Detection of intrauterine contraceptive device</p>	Gynecology & obstetric ultrasound		

		<p>3.Hysterosalpingography 4.Obstetric ultrasound (1st , 2nd ,3rd trimester & placental imaging) Large &small for dates Fetal death Ectopic pregnancy.</p>			
1		<p>1.Normal anatomy of neck 2.Goiter and their types 3.Toxic Goiter 4.Hypothyroidism 5.Thyroid malignancy 6.Salivary gland disease Inflammation tumor</p>	Neck US		
1		<p>1.Diagnostic vascular angiography 2.Arteriography 3.Magnetic resonance angiography 4.Computed tomography angiography 5.Ultrasound of arterial system 6.Ultrasound venography 7.Contrast venography</p>	Vascular imaging		

11. Course Evaluation

- 20% mid-year theoretical examination
- 25% The comprehensive practical exams conducted by the branch at the end of each training period .
- 55% final year examination (theoretical 50%, and practical 20%)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Diagnostic_Imaging_7th_Edition_medibos.blogspot.com_2
Main references (sources)	Practical and theoretical lectures
Recommended books and references (scientific journals, reports...)	College Library.
Electronic References, Websites	Google classroom platform , Radiopedia.com

Course Description Form

University of Mosul

College of Medicine

Department of Family & Community Medicine

1. Course Name:	
Family Medicine	
2. Course Code:	
McCo510	
3. Semester / Year:	
2025-2026 First and Second Semester	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical Lectures: 15 lectures Clinical Training: 30 hours Credit Units: 2 units	
7. Course administrator's name (mention all, if more than one name)	
Prof. Dr. Zaid Muayad Yassen	zmy@uomosul.edu.iq
Prof. Dr. Anmar Burhan Al-Dewa chi	f.medicine@uomosul.edu.iq
Asst. prof. Dr. Rukayah Adnan Salih	ruqayaadnan@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>The course aims to provide students with adequate training in all fields of Family Medicine, enabling them to diagnose and appropriately manage common health problems, and to make the necessary decisions for the diagnosis and treatment of all family members regardless of age, gender, or type of illness ,by the end of the course students should be able to:</p> <p>Knowledge: K1: Demonstrate understanding of health care systems and the role of primary health care in improving community health. (KP1). K2: Apply knowledge to diagnose and manage common health problems. (KP2)</p> <p>Skills: S1: Demonstrate effective communication skills with patients, families, and members of the healthcare team using patient-centered approaches and professional interaction. (CSP1) S2: Perform accurate and efficient history taking and physical examination, demonstrating proficiency and precision in clinical assessment. (PC1) S3: Develop clinical reasoning and evidence-based decision-making skills to manage common medical conditions effectively and formulate appropriate management plans. (PC2)</p> <p>Attitude: A1: Demonstrate the ability to provide medical consultations and deliver effective health education within the primary healthcare setting. (ETW1)</p>

	<p>A2: Acquire research skills and the ability to access, analyze, and apply relevant medical information appropriately in clinical practice. (ETW2)</p> <p>A3: Enhance behavioral and communication skills by demonstrating cultural competence and professional collaboration with patients and healthcare providers. (ETW3)</p>
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9. Teaching and Learning Strategies

Strategy	The student should attend lectures according to rules of the university during clinical train the student will deal with all medical programs of primary health care every group of student can present seminars related to family medicine.
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-4	4	Develop skills in accessing relevant medical information including history, clinical examination, and investigations in Primary Health Care and to apply it to the specific context.	Family Medicine Principles	lectures	Written Exam
5-6	2	1. Practicing evidence bases medicine	Preventive medicine and periodic medical examination	Lectures	Written Exam
7-15	9	Develop skills in accessing relevant medical information including history, clinical examination, and investigations in Primary Health Care and to apply it to the specific context.	Management approach of chronic and acute common clinical conditions	Lectures	Written Exam
1-30	30	Communication skills History taking skills Clinical examinations skills	Clinical training in PHC centers on family medicine programs	Clinical training	OSCE

11. Course Evaluation

Clinical Exam 20, Mid-year Exam 20 , Final Exam 60

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	(Swanson's Family Medicine Review,9th Edition).
Main references (sources)	(Swanson's Family Medicine Review,9th Edition)
Recommended books and references	American academy of Family Physician
Electronic References, Websites	Aafp.org

Course Description Form

University of Mosul

College of Medicine

Department of Medicine

1. Course Name:	
Internal medicine	
2. Course Code:	
MCMd601	
3. Semester / Year:	
2025 – 2026	
4. Description Preparation Date:	
28/9/2025	
5. Available Attendance Forms:	
Register attendance in person	
6. Number of Credit Hours (Total) / Number of Units (Total)	
360 hours practical/ 44 units / Saturday included to cover the practical hours	
7. Course administrator's name (mention all, if more than one name)	
Assist. Prof. Dr. Mohammad Harith mohammedharith11@uomosul.edu.iq	
8. Course Objectives	
Course Objectives	<p>The course aims to train students of the sixth stage to integrate and apply core medical knowledge, clinical skills, and professional attitudes necessary for the safe and effective practice of general internal medicine. By the end of the course, students should be able to</p> <p>Knowledge and understanding outcome:</p> <p>k1. Demonstrate and apply knowledge related to pathophysiology, clinical presentation, differential diagnosis, and evidence-based management plans for common and critical medical conditions across major organ systems (e.g., cardiovascular, respiratory, gastrointestinal, endocrine, renal, and neurological) (Kp 1, Kp 3)</p> <p>k2. Interpret the principles of pharmacology and therapeutics to justify appropriate drug selection, dosing, and monitoring for a range of acute and chronic diseases. (kp3 , kp5 , kp 6)</p> <p>k3. Explain the principles of health promotion, disease prevention, screening, and the ethical-legal frameworks governing patient consent, capacity, and end-of-life care. (kp2 , kp 3, kp 4 , kp 7 , kp 8)</p> <p>Skills outcome</p> <p>S1. Conduct a comprehensive, focused, and systematic history and physical examination for patients with complex diseases, tailoring the clinical encounter to the patient's clinical status and context. (pc 1 , pc 2)</p> <p>S2. Demonstrate clinical reasoning and problem-solving by constructing a prioritized differential diagnosis, selecting and interpreting relevant diagnostic tests, and developing an evidence-based, patient-centered management plan. (pc 3 , pc 4)</p> <p>S3. Execute core clinical procedures, such as venipuncture, intravenous cannulation, arterial blood gas sampling, and Foley catheter insertion, with due regard for aseptic technique and patient safety. (pc 5)</p>

	<p>S4. Document a complete and accurate clinical encounter in the form of a structured patient note, referral letter, or verbal handover, ensuring clear and concise communication to other healthcare professionals. (pc 6 . pc 7)</p> <p>Attitude outcome</p> <p>A1. Exemplify professional behaviors, including integrity, accountability, respect, and compassion, in all interactions with patients, families, and members of the healthcare team. (csp1 , csp2)</p> <p>A2. Practice patient-centered care by respecting patient autonomy, demonstrating cultural sensitivity, and engaging patients and their families as partners in shared decision-making. (csp 2 , csp 3 , csp 4)</p> <p>A3. Recognize the limits of one's own knowledge and clinical competence, proactively seeking feedback, supervision, and engaging in self-directed learning to close identified gaps. (csp1 , csp2)</p> <p>A4. Collaborate effectively as an interdisciplinary team member, demonstrating respect, clear communication, and an understanding of the roles and responsibilities of other healthcare professionals. (csp 1)</p>
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9. Teaching and Learning Strategies

Strategy	<p>Practical sessions at teaching hospitals.</p> <p>Tutorials on a weekly basis</p> <p>Simulators</p> <p>Skill labs hand on training</p>
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-6	52	examination of the cardiovascular system + clinical cases discussion (ischemic heart diseases, valvular heart diseases, pericardial diseases, pulse..)	cardiology	Clinical practice	OSCE exam. (clinical)+ theoretical assessment
7-11	38	Proper examination of the respiratory system+ cases discussion (Asthma , COPD, bronchiectasis , pleural effusion..)	Respiratory	Clinical practice	OSCE exam. (clinical)+ theoretical assessment
12-16	38	Proper approach to endocrine system + cases discussion like thyroid diseases and pituitary diseases	Endocrine	Clinical practice	OSCE exam. (clinical)+ theoretical assessment
17-21	38	Proper approach to renal diseases+ cases discussion (acute kidney injury , Chronic kidney disease, nephrotic and nephritic syndrome)	Nephrology	Clinical practice	OSCE exam. (clinical)+ theoretical assessment
22-26	38	Proper examination of GIT system + cases discussion like GIT bleeding , liver diseases, ascites , evaluation of diarrhea	Gastroenterology	Clinical practice	OSCE exam. (clinical)+ theoretical assessment

27-31	35	Proper approach to infectious diseases + cases discussion like infective diarrhea, pneumonia , T.B. ..	Infectious diseases	Clinical practice	OSCE exam. (clinical)+ theoretical assessment
32-36	38	Proper approach to hematological diseases + cases discussion like hemolysis, leukemia , lymphoma..	Hematology	Clinical practice	OSCE exam. (clinical)+ theoretical assessment
37-41	35	Proper examination of rheumatological system + cases discussion like rheumatoid arthritis, ankylosing spondylitis , rehabilitation...	Rheumatology and Rehabilitation	Clinical practice	OSCE exam. (clinical)+ theoretical assessment
42-44	25	Proper examination of neurological system + cases discussion (stroke, cranial nerves , M.S...)	Neurology	Clinical practice	OSCE exam. (clinical)+ theoretical assessment
45-47	23	Proper approach to immunological disease + cases discussion of autoimmune diseases.	Immunology	Clinical practice	OSCE exam. (clinical)+ theoretical assessment

11. Course Evaluation

1. Examination at the end of the clinical course (total marks 20 , 16 marks OSCE clinical examination + 4 marks problem-solving multiple-choice questions)
2. Final general assessment exam consisting of multiple-choice questions with reasoning as well as problem solving to assess the students' knowledge (total marks 40)
3. Final Practical examination OSCE stations (total marks 40)

12. Learning and Teaching Resources

Required textbooks (Davidsons general practice of medicine Macloids clinical examination
Main references (sources)	College library
Recommended books and references (scientific journals, reports...)	1.Harrison textbook of medicine 2. Oxford clinical medicine
Electronic References, Websites	1. Medscape 2. uptodate

Course Description Form

University of Mosul

College of Medicine

Department of Surgery

1. Course Name:	
Surgery	
2. Course Code:	
MCSu604	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Register attendance in person	
6. Number of Credit Hours (Total) / Number of Units (Total)	
360 hours (50 hours theory +310 hours practical)/ 12 Units	
7. Course administrator's name (mention all, if more than one name)	
Samir Ibrahim Al – Safaar	sameeribsaffar@uomosul.edu.iq
Karm Kamal	karmkyounis@uomosul.edu.iq
Firas Mahmmod	firasmahibrm@uomosul.edu.iq
Nuaman Hadii	noomanhadisa@uomosul.edu.iq
Odyi Hanii	udayhanimoh@uomosul.edu.iq
Zaid Saaduldeen Khudhur	zaidsaadkhudhur@uomosul.edu.iq
Omar Saad	omar.mahmood@uomosul.edu.iq
Ali Hasan	ali.mohammd@uomosul.edu.iq
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Muthana Abdulrazaq	
Yasir Taqa	yasiradiltaha@uomosul.edu.iq
Mohammed ayad	
Haitham Abdulmalik	
Ali Abdulmuttalib	aliabdmutt@uomosul.edu.iq
Sinmar Yonus	sinmaryounisha@uomosul.edu.iq
Baraa Mahir	baraamahaziz@uomosul.edu.iq
Mohammad Saad	mohsaadazeez@uomosul.edu.iq

Marwa Ismael	marwaesmail85_radio@uomosul.edu.iq
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Enas Taha	enas.mohammed@uomosul.edu.iq
Dalal Ahmed	dalal.ramadhan@uomosul.edu.iq
Sabreen Jabbar	sabreen.jabbar@uomosul.edu.iq
Wasan Ali	wasanali_radio@uomosul.edu.iq
Alaa Mahir	
Azzam Abdulqadir	
Zubaida Saad	

8. Course Objectives

Course Objectives	<p>The course describes the advanced knowledge of Surgery and its departments to the medical students in order to build the clinical knowledge and clinical skills in diagnosis and treatment of the different surgical diseases including the emergent conditions, so optimize the medical services to the society.</p> <p>Knowledge:</p> <p>K1. Recognize the basic theoretical and clinical knowledge of surgery and its branches and became able to apply this knowledge on common surgical cases attending the emergency and consultation departments (KP1).</p> <p>K2. Describe the etiology, pathophysiology, clinical symptoms, complications, and methods of diagnosis and most successful treatment of common surgical conditions (PC3, PC5).</p> <p>K3. Demonstrate and apply the knowledge of a range of alternative and complementary therapies. The reason why some patients use them, and how these might affect other types of treatment that patients receive (KP5).</p> <p>Skills</p> <p>S1: Gather, document, and effectively present essential and accurate information about patients and their conditions through history-taking, physical examination and an assessment of mental state (PC1).</p> <p>S2: Interpret the findings from the history, the physical examination, and the mental-state examination to construct a preliminary differential diagnosis (PC2).</p> <p>S3. Decide on a range of investigations required. Interpret and effectively apply laboratory data, imaging studies, and other tests to reach a final diagnosis (PC3).</p> <p>S4. Formulate a plan for treatment, management and discharge according to the best evidence in partnership with patients, their families and other health professionals (PC4).</p> <p>S5. Perform certain essential medical, diagnostic, and surgical procedures (PC5).</p> <p>Attitude</p> <p>A1. Follow the necessary rules in how to communicate and interact with the patient (CSP1).</p> <p>A2. The student will be able to recognize any ethical problems in relation to the topics and act accordingly (CSP2).</p> <p>A3. The student will be able to recognize the importance of respect of the patient's dignity and privacy (ETW2).</p>
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9. Teaching and Learning Strategies

Strategy	Practical sessions at teaching hospitals. Seminars at weekly basis. Skill labs hand on training and training on Simulators.
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-4	14 4	Proper examination and management in GIT and other common surgical diseases.	General surgery	Clinical practice	OSCE exam.
4-6	86	Proper examination and management of locomotor system.	Orthopedics	Clinical practice	OSCE exam.
6-8	60	Proper approach to urological problems	Urology	Clinical practice	OSCE exam
8-9	22	Proper approach to vascular and thoracic surgical patients	Cardiothoracic surgery	Clinical practice	OSCE exam.
9	7	Proper approach to common ENT diseases	ENT	Clinical practice	OSCE exam
9	7	Proper knowledge of radiology	Radiology	Clinical practice	OSCE exam
10	7	Proper approach to burns and skin problems	Plastic surgery	Clinical practice	OSCE exam
10-11	7	Appropriate perioperative anesthetic management	Anesthesia	Clinical practice	OSCE exam
11	11	Approach to neurological surgical patients	Neurosurgery	Clinical practice	OSCE exam
11	7	Approach to ophthalmological conditions	Ophthalmology	Clinical practice	OSCE exam.

11. Course Evaluation

20 % Practical examination at the end of the course consists of case scenario and OSCE.
Follow up of the lpgbook and formative assessment.
40 % Practical final exam consists of case scenario and OSCE.
40% Written final exam consisting of SBA questions with reasoning as well as problem solving.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Baily and Love's Textbook
Main references (sources)	College library
Recommended books and references (scientific journals, reports...)	Brows Textbook of Clinical examination
Electronic References, Websites	PubMed, uptodate

Course Description Form

University of Mosul

College of Medicine

Department of gynecology & obstetrics

1. Course Name:	
Gynecology & obstetrics	
2. Course Code:	
MCOg603	
3. Semester / Year:	
First and second / 2025 – 2026	
4. Description Preparation Date:	
15/9/2025	
5. Available Attendance Forms:	
Personal attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
10weeks – 300 Hours (6 hours per day)- 10Units	
7. Course administrator's name (mention all, if more than one name)	
Prepared by :Lecturer Hiba Ahmed Suhail	Hiba.suhail@uomosul.edu.iq
prof. Raida Mohammed Al.Wazzan	rmw@uomosul.edu.iq
Asst. prof. Ahmed Jasim Mohammed Al.Husseini	ajm@uomosul.edu.iq
Lecturer Saja Abdul Bari Al.Jawadi	saa@uomosul.edu.iq
Lecturer Asmaa Abdul Razzaq Al.Sanjari	asmaaabdulrazzaq@uomosul.edu.iq
Lecturer Baraa Lukman Mohammed	blm@uomosul.edu.iq
Lecturer Ruaa Abdul Jabbar	Roaa.abduljabbar@uomosul.edu.iq
Lecturer Amina Zakarea Sedeek	azs@uomosul.edu.iq
Lecturer Aseel basim yonis	Aseel basim@uomosul.edu.iq
Lecturer Hadeel Anwer	Hadeel Anwer@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>Knowledge (K) K1: Demonstrate and apply knowledge related to the basic principles of obstetrics and gynecology, including anatomy of the female reproductive system and physiology of pregnancy. (KP1) K2: Understand and apply knowledge in managing common emergencies and various pathological conditions in obstetrics and gynecology. K3: Acquire and apply knowledge concerning community health promotion and healthcare for women of reproductive age and postmenopausal women. (KP4) K4: Acquire and apply knowledge related to medical, complementary, and alternative therapies, and understand the role of lifestyle factors in women's health. (KP5,7)</p> <p>Skills (S) S1: Perform clinical examination of common gynecological and obstetric conditions and manage them appropriately. (PC1) S2: Train in performing cervical examinations, normal delivery, and minor surgical procedures such as perineal repair, both in the teaching hospital and in the clinical skills laboratory. (PC1) S3: Interpret findings from patient history, physical examination, and laboratory investigations to construct a differential diagnosis and formulate a management</p>

plan based on the best available evidence, in partnership with patients, families, and other healthcare professionals, while considering patient concerns and preferences. This includes performing basic diagnostic and surgical procedures and prescribing effective, safe, and cost-efficient medications. (PC1, 4, 5)

S4: Provide immediate care in all obstetric emergencies. This includes recognizing the need for urgent care, diagnosing and managing acute gynecological and obstetric emergencies, delivering immediate life support, and performing cardiopulmonary resuscitation (CPR). (PC7)

Attitudes (A)

A1: Actively participate in the learning process by engaging in discussions with instructors and peers. (CSP1)

A2: Show respect for colleagues and adhere to ethical standards when working with anatomical specimens, recognizing their importance in learning and the generosity

of body donors. (CP2)

A3: Work effectively within a team, demonstrating both collaboration and leadership skills during group activities and practical sessions. (CP1)

A4: Respect patient privacy and confidentiality, and uphold patients' rights to refuse participation in teaching or research activities. (CP1)

A5: Demonstrate commitment to ethical principles in medical practice, including beneficence, non-maleficence, autonomy, and justice. (CP1,2)

9. Teaching and Learning Strategies

Strategy	<p>Clinical training groups (20-25)students</p> <ul style="list-style-type: none"> • Preparing and presenting seminars • Log book prepared by the students. • Teaching in the skills laboratory • Watching operations <p>Theoretical lectures and clinical training in the fourth and fifth stages.</p> <ul style="list-style-type: none"> • Encourage student central learning • Lifelong learning • Analytical and critical thinking • Evidence based medicine
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10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1-10	300	<p>The main goal of this course is to build the knowledge, competence, and skills necessary to understand the scientific foundations of obstetrics and gynecology. It aims to develop essential clinical skills for the diagnosis and management of various gynecological and obstetric conditions, including emergencies, in order to improve the quality of healthcare services provided to the community.</p>	Gynecology and obstetric	<p>Clinical sessions in teaching hospital Attendance Obstetrics gynecological ward theaters primaryhealthcare centers skill laboratoy using models or educational doll and computers to display pictures of some cases of obst and gyn vedios learni methods of examinations</p>	<p>theoretical exam , clinical exam including OSCE at the end of the course</p>

	<p>The course also emphasizes student-centered learning, promotes the concept of lifelong learning enhances critical and logical thinking skills, and encourages the adoption of evidence-based medical practice. Building knowledge, ability and skill to accommodate the scientific foundations in the subjects of obstetrics and understand the terms of the scientific and practical material</p>		and common surgical procedures	
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11. Course Evaluation

- Total Course exam 20marks, includes:
 - Course exam SBA 7marks
 - Primary health care center exam 1 mark
 - Clinical OSCE exam 12 marks
 - Final clinical exam 40 marks
 - Final theoretical exam 40 marks
- Total marks 100

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ✓ Obstetrics by Ten Teachers ✓ Gynecology by Ten Teachers
Main references (sources)	
Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none"> ✓ Oxford hand book of gynecology and obstetrics ✓ Illustrated gynecology ✓ Illustrated obstetrics
Electronic References, Websites	<ul style="list-style-type: none"> ✓ websites for magazines ✓ websites Medscape. ✓ Green top guide line ✓ Nice guideline

Course Description Form

University of Mosul

College of Medicine

Department of Pediatrics

1. Course Name:	
Pediatrics	
2. Course Code:	
MCPe604	
3. Semester / Year:	
First and second / 2025-2026	
4. Description Preparation Date:	
13-9-2025	
5. Available Attendance Forms:	
Register attendance in person	
6. Number of Units (Total)	
300 hours and 10 units	
7. Course administrator's name	
Name: Farah Sameer	fsy@uomosul.edu.iq
8. Course Objectives	
Course Objectives	<p>Provide the students with knowledge, skills, and attitudes so that they can effectively interact with, assess, and provide care for babies, children, and young people</p> <p>Knowledge:</p> <p>K1. Apply evidence-based knowledge to accurately diagnose and manage common pediatric conditions and diseases, including but not limited to infectious diseases, developmental disorders, and nutritional deficiencies. This includes understanding the principles of disease prevention and health promotion, aligning with Sustainable Development Goal 3. (KP1, KP3, KP6).</p> <p>K2. Recognize variations in common laboratory findings and vital signs (heart rate, respiratory rate, blood pressure, complete blood count and differential, chest x-ray, cerebrospinal fluid, electrolytes).</p> <p>K3. Recognize and initiate initial management for life-threatening conditions ,focusing on respiratory distress and severe dehydration.</p> <p>K4 This includes applying principles from the Pediatric Advanced Life Support (PALS) framework and understanding the urgent need for intervention to prevent mortality.</p> <p>Skills:</p> <p>S1. Conduct complete and focused pediatric histories and physical examinations that are age-appropriate and sensitive to the unique needs of infants, children, and adolescents.</p> <p>S2 Communicating effectively with both the child and their parents/guardians to gather accurate information and build trust.</p> <p>S3 Embody the characteristics of a professional student doctor and a member of the healthcare team by demonstrating empathy, integrity, and accountability</p> <p>Attitude:</p> <p>A1. Demonstrate effective interpersonal communication skills with patients and as a member of the healthcare team.</p>

	<p>A2 Recognize the child as a unique individual deserving dignity and protection.</p> <p>A3 Show curiosity and motivation for lifelong learning.</p>				
9. Teaching and Learning Strategies					
Strategy:		<p>A: Clinical sessions</p> <p>B: Skills lab: Students practicing basic and advanced life support in addition to other procedures like NG tube insertion, lumbar puncture</p> <p>C: Seminars and presentations</p>			
10. Course Structure					
Week	Hours	Subject Name	Main Learning Outcome	Learning method	Evaluation method
1-10	300	Pediatrics	<p>Efficiently obtain an age-appropriate medical/developmental/social history in a sensitive manner from a child and/or the accompanying adult.</p> <p>Identify normal developmental milestones in infancy, childhood, and adolescence, and recognize deviations or delays</p> <p>Identify normal linear growth and weight gain in infancy, childhood, and adolescence and recognize deviations or delays</p> <p>Describe the general science of immunizations, recognize the recommended vaccination schedule, and list the most common vaccine-preventable illnesses</p> <p>Independently perform an age-appropriate pediatric physical exam in a sensitive manner that is tailored to the nature of the visit or complaint.</p> <p>Perform a thorough physical exam of a normal newborn infant. Specifically identify normal newborn reflexes, fontanelle, palate, red reflex, Barlow/Ortolani hip maneuvers, sacral dimples, and common skin findings</p> <p>Evaluate common respiratory pediatric conditions, including: Fever, sore throat, otalgia, rhinorrhea, cough, stridor, respiratory distress (asthma, viral-induced wheeze,</p>	<p>Clinical Sessions</p> <p>Skill Lab</p>	<p>Written exam</p> <p>OSCE</p>

		<p>bronchiolitis, pneumonia), and other diseases like cystic fibrosis</p> <p>Skill LAB</p> <p>Evaluate common gastrointestinal pediatric conditions including: vomiting and diarrhea with dehydration, abdominal pain, failure to thrive, and other rarer diseases like celiac disease.</p> <p>Calculate the appropriate weight-based rate and describe appropriate components of intravenous fluids for Pediatric patients</p> <p>Evaluate heart murmurs and common cardiovascular pediatric problems like VSD, ASD, PDA, TOF , and other diseases like myocarditis and infective endocarditis</p> <p>Evaluate common central nervous system pediatric disorders like febrile convulsion, meningitis, cerebral palsy and other conditions like hydrocephalous.</p> <p>Evaluate altered mental status (lethargy, irritability, coma)</p> <p>Evaluate common neonatal conditions like neonatal jaundice, transient tachypnoea of the newborn, problems of prematurity like RDS, neonatal sepsis, hypoglycemia, birth asphyxia, meconium aspiration syndromes</p> <p>Evaluate common pediatric hematological problems like iron deficiency anemia, thalassemia syndromes, and other conditions like hemophilia, ITP, leukemia, lymphoma</p> <p>Evaluate common hepatobiliary pediatric conditions like viral hepatitis, and common pediatric endocrinal problems like type 1 DM,</p> <p>Recognize common pediatric rashes and associated diagnoses, including viral exanthems, jaundice, petechiae, purpura, bruising, vesicles, urticaria, and dermatitis and renal diseases like nephrotic syndrome</p>		
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11. Course Evaluation	
1. 20% Clinical course exam	
2. 40% Final written exam (National)	
3. 40% Final clinical OSCE exam	
12. Learning and Teaching Resources	
Required textbooks	Nelson's essentials of pediatrics (ninth edition) 2023
Main references (sources)	Nelson Textbook of Pediatrics, 22nd ed, 2024
Recommended books and references (scientific journals, reports...)	Illustrated textbook of pediatrics(sixth edition) 2022 (Important research and articles related to the subjects included in the lectures)
Electronic References, Websites	NICE guidelines, ROME IV Criteria, Ispad guidelines 2022