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

Academic Program and Course Description Guide

2025

Introduction:

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

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

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

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

Concepts and terminology:

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

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

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

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

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

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

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

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

Academic Program Description Form

University Name: **Fallujah**

Faculty/Institute: **Medicine**

Scientific Department: **Medicine**

Academic or Professional Program Name: **Bachelor of Medicine and General Surgery**

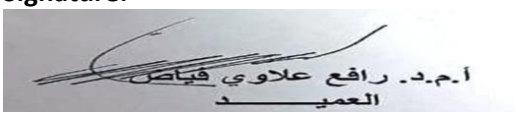
Final Certificate Name: **Bachelor**

Academic System: .....

Description Preparation Date: **11/5/2025**

File Completion Date: **11/5/2025**

Signature:



Head of Department
Name:Assis.Prof.Dr.Rafaa Al-Fayyadh
Date:11/5/2025

Signature:

Scientific Associate
Name:Assis.Prof.Dr.Ali Al-Alosi
Date: 11/5/2025

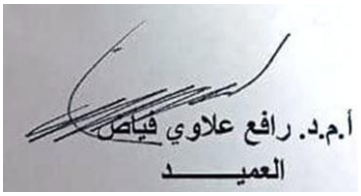
The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/5/2025

Signature:



Dr.Mustafa Saleam

Approval of the Dean

1. Program Vision

Achieving leadership in medical education and being an effective partner in elevating the academic and health level a cross Iraq.

2. Program Mission

- Educating and training the medical students in a purposeful educational environment to prepare the graduates for distinguished and safe medical practice while consolidating human and scientific values, social principles and quality standards.
- To Graduate doctors who are capable of responding to health needs and challenges, and directing scientific research to solve health problems in society.

3. Program Objectives

The academic program at the College of Medicine/University of Fallujah aims to graduate doctors with medical knowledge and skills that qualify them to work in health institutions.

4. Program Accreditation

5. Other external influences

The official sponsor of our college is the University of Fallujah and under the auspices of the Ministry of Higher Education and Scientific Research.

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				

College Requirements				
Department Requirements				
Summer Training				
Other				

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

7. Program Description

1st stage

1st Semester

Subjects	Lect. Specifications	Hours / Week		Credits
		Theory	Practical	
Medical Biology		3	3	4.5
Medical Chemistry		2	3	3.5
Medical Physics	*	2	3	3.5
Human Anatomy		1	2	2
Computer Science		1	2	2
English Language and Medical Terminology		2		2
Human Rights & Democracy		1		1
Baath Party crimes		1		1
Total				19.5

2nd Semester

Subjects	Lect. Specifications	Hours / Week		Credits
		Theory	Practical	
Human Anatomy		2	4	4
Medical Biology		2	3	3.5
Biochemistry		2	3	3.5
Medical Physics		2	3	3.5
Computer Science		1	2	2

English Language and Medical Terminology		2		2
Human Rights & Democracy		1		1
Total				19.5

2nd stage

1st Semester

Subjects	Lect. Specifications	Hours / Week		Credits
		Theory	Practical	
Human Anatomy		3	6	6
Histology		2	2	3
Human Embryology		1		1
Physiology		4	3	5.5
Medical Biochemistry		3	3	4.5
Total				20

2nd Semester

Subjects	Lect. Specifications	Hours / Week		Credits
		Theory	Practical	
Human Anatomy		3	6	6
Physiology		4	3	5.5
Histology		2	2	3
Human Embryology		2		2

3rd stage

1st Semester

Subjects	Lect. Specifications	Hours / Week		Credits
		Theory	Practical	
Bacteriology		2	2	3
Immunology		2	2	3
Internal Medicine		2	2	3
Pathology		4	3	5.5
Community Medicine & Epidemiology		1		1
Pharmacology & Therapeutics		3	2	4
Surgery		1		1
Total				20.5

2nd Semester

Subjects	Lect. Specifications	Hours / Week		Credits
		Theory	Practical	
Pathology		3	3	4.5
Pharmacology & Therapeutics		3	2	4
Community & Family Medicine		2	2	3
Internal Medicine		2	2	3
Parasitology		2	2	3
Microbiology: Virology & Medical Mycology		2	2	3
Surgery		1		1
Total				21.5

4th stage

Subjects	Lect. Specifications	Hours / Week	Credits

		Theory	Practical	
Community & Family Medicine		3	3	4.5
Forensic Medicine		2	3	3.5
Urology	Nephrology + Surgery	3		3
Cardiology	Medicine + Cardiovascular Surgery	2		2
Obstetrics & Gynecology		2		2
Pediatrics		2		2
Respiratory Diseases		2		2
Total				19

1st Semester

2nd Semester

Subjects	Lect. Specifications	Hours / Week		Credits
		Theory	Practical	
Gastroenterology	Medicine + Surgery	5		5
Forensic Medicine		2	3	3.5
Community & Family Medicine		3		3
Pediatrics		2		2
Endocrinology & Metabolic Diseases		2		2
Behavioral Sciences		1		1
Obstetrics & Gynecology		1		1
Total				17.5

Subjects	Hours / Week	Credits

	Daily Hours	No. of Weeks	No. of Days / Weeks	Total Hours	
Internal Medicine	2	8	4	64	2
Obstetrics & Gynecology	2	8	4	64	2
Pediatrics	2	8	4	64	2
Surgery	2	8	4	64	2
Total					8

Clinical Practice

5th stage

1st Semester

Subjects	Lect. Specifications	Hours / Week		Credits
		Theory	Practical	
Orthopedics		3		3
Ophthalmology		2		2
Neurology	Neuromedicine + Neurosurgery	2		2
Obstetrics & Gynecology		2		2
Hematology		2		2
Psychiatry		2		2
Pediatrics		1		1
Total				14
2nd Semester Subjects	Lect. Specifications	Hours / Week		Credits
		Theory	Practical	
Surgery (subspecialties)	• Head & Neck Surgery • Surgical Emergency • Breast Surgery • Pediatric Surgery • Plastic Surgery	3		3
ENT		2		2
Radiology		2		2
Dermatology		2		2
Obstetrics & Gynecology		1		1
Pediatrics		1		1

Rheumatology		1		1
Medical Ethics		1		1
Total				13

Clinical Practice

Subjects	Hours / Week				Credits
	Daily Hours	No. of Weeks	No. of Days / Weeks	Total hours	
Dermatology	3	3	5	45	1.5
ENT	3	3	5	45	1.5
Neurology	3	3	5	45	1.5
Ophthalmology	3	3	5	45	1.5
Orthopedics	3	3	5	45	1.5
Thoracic Surgery	3	3	5	45	1.5
Psychiatry	3	3	5	45	1.5
Radiology	3	3	5	45	1.5
Urology	3	3	5	45	1.5
Surgical Pathology	3	3	5	45	1.5
Total					15

6^{th} stage
Clinical Practice

Subjects	Hours / Week				Credits
	Daily Hours	No. of Weeks	No. of Days / Weeks	Total hours	
Surgery	6	15	5	450	15
Medicine	6	14	5	420	14
Obstetrics & Gynecology	6	8	5	240	8

Pediatrics	6	8	5	240	8
Total				1350	45

Credit distribution for 6 years study in the

Credits Specification	Credits
Total Credits for fulfillment of college study	254
Clinical training in surgery throughout	27.5
Clinical training in Medicine throughout	22.5
Clinical training in Obstetrics & Gynecology throughout	10
Clinical training in Pediatrics throughout	10

8. Expected learning outcomes of the program

Outcomes

The main purpose of medical education at the College of Medicine, University of Fallujah is to graduate doctors who have the knowledge, the will and skills that enable them to practice medicine safely while embodying human and ethical values to ensure the achievement of the college's goals. **These goals include the ability to demonstrate competencies in:**

1. Adopting sound medical principles with knowledge of basic sciences and applying them in a safe practical manner.
2. The ability to obtain a medical history efficiently with the ability to perform various clinical examinations.
3. The ability to choose common laboratory and radiological examinations and their correct use and the procedures required to obtain the necessary samples to reach the correct diagnosis of the case.
4. Good knowledge of communication skills with patients, their families, colleagues and all medical workers.
5. Good knowledge of first aid and performing respiratory and cardiopulmonary resuscitation.
6. Working effectively as part of an emergency care team in managing life-threatening cases due to various causes.
7. Knowing the principles of medical ethics and the legal responsibilities arising from practicing the profession.
8. Assisting in general primary health care programs and various family and community medicine specialties.
9. Contributing to scientific research through knowledge of research methods and various measurement methods.
10. Good knowledge of using computers and the ability to deal with various programs for hospital management and outpatient clinics in relation to patient care, health promotion and answering various medical consultations.
11. To be constantly informed of the latest scientific developments and global medical research in line with the concept of evidence-based medicine.

9. Teaching and Learning Strategies

Actually lectures

Actually lab. lectures and experiment

Interviews

seminars

Reports

10. Evaluation methods

Written exam

oral exam

Lab exam

OSCE

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer

12. Acceptance Criterion

The college is subject to the central admission regulations of the Ministry of Higher Education and Scientific Research.

13. The most important sources of information about the program

The academic program in our college is based on textbooks, medical sources and references, as well as the website and the latest published research.

14. Program Development Plan

The college's plan to develop the academic program is to seek to create a partnership with other international medical colleges in order to exchange

experiences in the field of education and research.

First year / First semester

Course Description Form

1. Course Name:
Medical chemistry
2. Course Code:
CHMMed-11
3. Semester / Year:
1st semester / 1st year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
First stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
75
7. Course administrator's name (mention all, if more than one name)
Name:Dr.Mustafa abdulkarime Dr.Walied Khalied Email:
8. Course Objectives

Course Objectives	**The primary aim of this course is to provide medical students with a foundational understanding of general and organic chemistry, emphasizing its relevance to medical science. The course is designed to equip students with the knowledge and skills necess to understand chemical principles and their applications in biological systems, clinical practice, and medical research**

9. Teaching and Learning Strategies	
Strategy	Teaching Strategies include theoretical lectures, discussions, practical part and conducting experiments. Evaluation is based on the grades of the theoretical and practical exam and short exams

10. Course Structure

The week	Hours	Unit name/topic	Required learning outcomes	Teaching method	Evaluation method
Week 1	2 h theory	Introduction To General Chemistry:	Learn the principles of radiation and	Lecture, Discussion	Summative and formative assessment

	+3 h practical	Radioactivity Radiation Dosages Medical Uses Of Radioactive Isotopes	methods of calculating radiation doses for treatment purposes.		
Week 2	2 h theory +3 h practical	**Gases** & Their Medical Relations And Diffusion Of Respiratory Gases	Identifying gases and their relationship to the medical aspect, in addition to the spread of gases and methods of gas exchange during breathing processes.	Lecture, Discussion	Summative and formative assessment
Week 3	2 h theory +3 h practical	Aqueous Solutions, Solubility Concentrations of Solutions.	understand aqueous solutions and their significance in biological and chemical contexts.	Lectures	Summative and formative assessment
Week 4	2 h theory +3 h practical	Aqueous Solutions :Electrolytes & Non- electrolytes Osmosis & Osmotic Pressure	The importance of different ions and electrolytes and methods of calculating concentrations in biological models. Learn about the principles of osmosis and its role in medicine.	Lecture, Discussion	Summative and formative assessment
Week 5	2 h theory +3 h practical	Acid And Bases pH Buffer Acid-Base Balance In Blood	Calculate pH, explain buffer systems, and their role in maintaining blood pH.	Lectures	Summative and formative assessment
Week 6	2 h theory +3 h practical	Colloids And Their Properties, Emulsions, Emulsifying Agents Dialysis, Hemodialysis	Learn about the types of dialysis and how it works	Lectures	Summative and formative assessment
Week 7	2 h theory +3 h practical	Rate of reactions, Activation Energy & Chemical Equilibrium	Identify the kinetics of enzymatic reactions that occur inside the body.	Lectures	Summative and formative assessment
Week 8	2 h theory +3 h practical	**Organic Chemistry**: **Alkane, alkene and alkyne.**	Hybridization Double & Triple Bonds, Resonance. Cis and trans conformation Organic structure of triglycerides. Saturated fats, cis-fats and trans-fats , Health concerns of trans-fats Sources of	Lectures	Summative and formative assessment

			aromatic hydrocarbons Polyaromatic hydrocarbons		
Week 9	2 h theory +3 h practical	Aromatic compounds benzene & Heterocyclic Compound	Importance of the aromatic and heterocyclic compounds to the biological systems	Lectures	Summative and formative assessment
Week 10	2 h theory +3 h practical	Phenols & Ethers	Biologically important Phenolic Compounds. Health effects of certain Phenols. The importance of the disulfide bonds in proteins	Lectures	Summative and formative assessment
Week 11	2 h theory +3 h practical	Alcohols	The physiological effects of alcohols	Lectures	Summative and formative assessment
Week 12	2 h theory +3 h practical	Aldehydes & Ketones	Biologically important aldehydes and ketones Formation of hemiacetals, imines, and their biological importance	Lectures	Summative and formative assessment
Week 13	2 h theory +3 h practical	Carboxylic Acids: Esters & Thioesters	Structures, properties, and biological importance	Lectures	Summative and formative assessment
Week 14	2 h theory +3 h practical	Stereoisomers	Recognizing Chiral Compounds Optical Activity of enantiomers S and R, Nomenclature Chiral Compounds and Living Systems	Lectures	Summative and formative assessment
Week 15	2 h theory +3 h practical	Amines and Ethers	Biologically important amines and ethers Biological importance of quaternary ammonium compounds and Alkaloids	Lectures	Summative and formative assessment

11.Course Evaluation	
Theoretical and practical exams, short quizzes, and assessments of laboratory performance	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	General Chemistry for Medical students
Main references (sources)	Nothing
Recommended books and references (scientific journals, reports…)	Principles of Biochemistry: Nelson, David L., Cox, Micha M.
Electronic References, Websites	Nothing

1. Course Name:	
Medical physics	
2. Course Code:	
PHYPhy-11	
3. Semester / Year:	
1st semester / 1st year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
First stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
75	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Email:	
8. Course Objectives	
Course Objectives	**Understanding the Role of Physics in Medicine: To familiarize students with the applicati of physics in diagnostic and therapeutic techniques.** **Learning Key Technologies: To provide knowledge on medical technologies such as ima (X-ray, MRI, CT), radiation therapy, and ultrasound.**
9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the Professor. Practical training medical laboratories.the content is presented using slides or whiteboards, with the of illustrations and diagrams to help understand the material (PowerPoint). students are divided into small groups to discuss specific topics under the supervisio Professor. The use of online platforms is to provide recorded lectures, references, interactive questions.
10. Course Structure	

Week	Hours	Required learning outcomes	Unit name/topic	Teaching Method	Evaluation Method
1	2	Introduction to medical physics	Terminology, modeling and measurements	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture + writing a report on the results of the work
2	2	Forces in the Body	Electrical force, nuclear force, gravitational Force		
3	2	Forces on the Body	Static force, dynamic force, frictional force		
4	2	Energy, work, and power of the body	Conservation of energy in the body, units of energy and, energy changes in the body		
5	2	Electricity within the body	Electrical potentials of nerves, electrical signals from muscles, electrical signals from the heart, electrical signals from the eye, magnetic signals from the heart and brain		
6	2	Heat and Cold in Medicine	Physical basis of heat and temperature, The benefits of heat in the body, The applications of heat and cold in medicine, heat therapy		
7	2	Heat and Cold in Medicine	Use of cold in medicine, cryonics, cryosurgery		
8	2	Physics of the Cardiovascular System	Major components of the cardiovascular system, work done by the heart, pressure across the blood vessel wall		
9	2	Physics of the Skeletal System	Function of bones, bone composition,		

			bone remodeling, bone strength		
10	2	Physics of the Skeletal System	Bone fracture, measurement of bone density, bone joints		
11	2	Pressure part (1)	Negative pressure, measurement of pressure in the body, pressure in skeletal		
12	2	Pressure part (2)	The pressure lung, eye pressure, pressure inside the skull		
13	2	Basic physic of lung and breathing	Basic physics of the lung and breathing, mechanics and lung volumes, medical physics applications in respiratory health		
14	2	Sound in medicine	Properties of sound waves, the human ear and sound perception, doppler effect		
15	2	Physics of the Ear and Hearing	The sense of hearing, parts of the ear, testing your hearing		

11.Course Evaluation
Multiple choice questions, Short Essays, Problem solving cases, Quizzes

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

1. Course Name:
Human Anatomy
2. Course Code:
ANTAnt-12
3. Semester / Year:
1st semester / 1st year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
First stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
60
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Email:
8. Course Objectives

Course Objectives	**1- Introduce students to basic anatomical concepts.** **2- Describe the anatomy of the upper and lower extremities.** **3- Direct students towards the importance of anatomy in clinical practice.**

9. Teaching and Learning Strategies	
Strategy	1. Theoretical lectures 2. Practical laboratories 3. Explanations using presentation slides 4. Explanations using plastic samples

10. Course Structure

Weeks	Hours	Unit name/topic	Required learning outcomes	Teaching methods	Evaluation method
1	2= theoretical 2= practical	Basic Anatomy Concepts Anatomical Terminology	Basic Anatomy Concepts Anatomical Terminology	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
2	2 = theoretical 2= practical	Basic Anatomy Concepts Bones: Anatomy and Radiological	Basic Anatomy Concepts Bones: Anatomy and Radiological	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions

		Features	Features		and reports
3	2= theoretical 2= practical	Upper limb anatomy Superficial structures of the upper limb 1	Upper limb anatomy Superficial structures of the upper limb 1	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
4	2= theoretical 2= practical	Upper limb anatomy Superficial structures of the upper limb 2:Brachial Plexus	Upper limb anatomy Superficial structures of the upper limb 2:Brachial Plexus	Theoretical lectures and practical labs.	Theoretical and practical exams, discussion sessions and reports.
5	2= theoretical 2= practical	Upper limb anatomy Shoulder muscles. Shoulder joint.	Upper limb anatomy Shoulder muscles. Shoulder joint.	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
6	2= theoretical 2= practical	Upper limb anatomy Armpit:	Upper limb anatomy Armpit:	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
7	2= theoretical 2= practical	Upper limb anatomy Arm:	Upper limb anatomy Arm:	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
8	2= theoretical 2= practical	Upper limb anatomy elbow pit and joint	Upper limb anatomy elbow pit and joint	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
9	2= theoretical 2= practical	Upper limb anatomy Nerves and blood vessels of the forearm. Radioulnar joint.	Upper limb anatomy Nerves and blood vessels of the forearm. Radioulnar joint.	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
10	2= theoretical 2= practical	Upper limb anatomy: Lateral compartment.	Upper limb anatomy: Lateral compartment.	Theoretical lectures and practical	Theoretical and practical exams,

				labs	discussion sessions and reports
11	2= theoretical 2= practical	Upper limb anatomy: Posterior Fascial Compartment of the Forearm	Upper limb anatomy: Posterior Fascial Compartment of the Forearm	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
12	2= theoretical 2= practical	Upper limb anatomy: region of the wrist	Upper limb anatomy: region of the wrist	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
13	2= theoretical 2= practical	Upper limb anatomy: Hand1	Upper limb anatomy: Hand1	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
14	2= theoretical 2= practical	Upper limb anatomy: Hand 2	Upper limb anatomy: Hand 2	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
15	2= theoretical 2= practical	Overview	Overview	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports

11.Course Evaluation

Following up on attendance and reasons for non-attendance
Following up on educational supervision regarding the material
Evaluating students' answers to exam questions related to this aspect

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Moffat DB (1987): Lecture notes on anatomy. Black publications. Oxford
Main references (sources)	
Recommended books and references (scientific journals, reports…)	

Electronic References, Websites	Weir J & Abrahams P: Imaging atlas of the human body (CD)

1. Course Name:
Biology
2. Course Code:
ANTBio-11
3. Semester / Year:
1st semester / 1st year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
First stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
90
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Email:
8. Course Objectives

Course Objectives	**1.Introduce students to basic Biology concepts.** **2.The student acquires the scientific background and skill to learn Biology examination a Also, knowledge of the basis of genetics and cellular formations of the various body components.** **3.The student understands the importance of the structure and function of organs and th close relationship between tissues, physiology, biochemistry.**

9. Teaching and Learning Strategies

Strategy	1.Theoretical lectures 2. Practical laboratories 3. Explanations using presentation slides 4. Explanations using plastic samples

10. Course Structure

Weeks	Hours	Unit name/topic	Required learning outcomes	Teaching method	Evaluation method

1	3= theoretical 3= Practical	Biology as a science integumentary System. comparative anatomy of Cardiovascular system (I).	Biology as a science integumentary System. comparative anatomy of Cardiovascular system (I).	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
2	3= theoretical 3= Practical	The skeletal system. The appendicular system. Comparative anatomy of Cardiovascular system (II).	The skeletal system. The appendicular system. Comparative anatomy of Cardiovascular system (II).	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
3	3= theoretical 3= Practical	The muscular system. The digestive system. Comparative anatomy of skeletal System(I)	The muscular system. The digestive system. Comparative anatomy of skeletal System(I)	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
4	3= theoretical 3= Practical	The respiratory system. The cardiovascular system. Comparative anatomy of skeletal (II). System (II)	The respiratory system. The cardiovascular system. Comparative anatomy of skeletal (II). System (II)	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
5	3= theoretical 3= Practical	The nervous system The Genito-urinary system Comparative anatomy of CNS.	The nervous system The Genito-urinary system Comparative anatomy of CNS.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
6	3= theoretical 3= Practical	Medical genetics: Cytogenetics Regulation of cell cycle Comparative anatomy of	Medical genetics: Cytogenetics Regulation of cell cycle Comparative anatomy of	lectures ,tutorials and laboratory	Quizzes (theory and practical)

		sensory Receptors.	sensory Receptors.	sessions	
7	3= theoretical 3= Practical	The chromosomes. The chromosomal abnormalities. Comparative anatomy of respiratory System (I)	The chromosomes. The chromosomal abnormalities. Comparative anatomy of respiratory System (I)	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
8	3= theoretical 3= Practical	The human genome The gene Comparative anatomy of respiratory System (II)	The human genome The gene Comparative anatomy of respiratory System (II)	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
9	3= theoretical 3= Practical	Midterm examination Types of mutations Comparative anatomy of urogenital System (I)	Midterm examination Types of mutations Comparative anatomy of urogenital System (I)	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
10	3= theoretical 3= Practical	The gene regulation (I) The gene regulation (II) Comparative anatomy of urogenital System (II)	The gene regulation (I) The gene regulation (II) Comparative anatomy of urogenital System (II)	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
11	3= theoretical 3= Practical	Inborn errors of metabolism Mendelian laws Comparative anatomy of respiratory System (I)	Inborn errors of metabolism Mendelian laws Comparative anatomy of respiratory System (I)	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
12	3= theoretical 3=	Mendelian inheritance Quantitative inheritance 36.comparative anatomy of	Mendelian inheritance Quantitative inheritance 36.comparative anatomy of	lectures ,tutorials and laboratory	Quizzes (theory and practical)

	Practical	Respiratory system (II)	Respiratory system (II)	sessions	
13	3= theoretical 3= Practical	Linkage & recombination . The genetics of cancer Comparative anatomy of digestive System (I)	Linkage & recombination . The genetics of cancer Comparative anatomy of digestive System (I)	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
14	3= theoretical 3= Practical	Genetic engineering Ecology Comparative anatomy of digestive System (II)	Genetic engineering Ecology Comparative anatomy of digestive System (II)	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
15	3= theoretical 3= Practical	Ecology Ecology overview	Ecology Ecology overview	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)

11.Course Evaluation

Following up on attendance and reasons for non-attendance
Following up on educational supervision regarding the material
Evaluating students' answers to exam questions related to this aspect

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	BASIC HISTOLOGY (11th. ed)
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Computer Science	
2. Course Code:	
Comp.1	
3. Semester / Year:	
1st semester / 1st year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
First stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
45	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Email:	
8. Course Objectives	
Course Objectives	**•Utilize the computer for fundamental tasks.** **•identify and discuss the hardware components of the computer system.** **•Creating documents using a word processor and creating presentations.** **•Conducting research on the internet.**
9. Teaching and Learning Strategies	
Strategy	1-Theoretical Lectures 2- Practical Labs
10. Course Structure	

Week	Hours	Required learning outcomes	Unit name/topic	Teaching Method	Assessment Method
1	1	Introduction to Computer	Concepts of Hardware and Software with their components.	**1- Theoretical Lectures** **2- Practical Labs** **The course will use the following teaching and learning methods:** • Board (Normal or Smart) • Computers • Presentation software such as PowerPoint	• MCQ • Essay questions • Assessment of the experimental application on the Lab
2	1	Introduction to Computer (Cont.)	Concept of Computing, Data and information; Applications of Information Connecting input/output devices, and Peripherals to CPU.		
3	1	Computer Components	Computer Portions, Hardware Parts, l/O Units.		
4	1	Computer Components (Cont.)	Memory Types: Volatile and Non-Volatile Memory, Secondary Storage.		
5	1	Computer Components (Cont.)	CPU Components: Control Unit (CU), Arithmetic Logic Unit (ALU), and Registers.		
6	1	Computer Components (Cont.)	Computer Ports, Personal Computer (Features and Types).		
7	1	Operating System and Graphical User Interface GUI	Operating System; Basics of Common Operating Systems; The User Interface, Using Mouse Techniques.		
8	1	Operating System and Graphical User Interface GUI (cont.)	Use of Common icons, Status Bar, Using Menu and Menu-selection.		
9	1	Operating System and Graphical User Interface GUI (cont.)	Concept of Folders and Directories, Opening and closing of different Windows; Creating Short cuts.		
10	1	Operating System and Graphical User Interface GUI (cont.)	Customization and Personalization of GUIs, Accessibility Features in GUIs, User Experience (UX).		
11	1	Word Processing	Word Processing Basics; Basic Features of Word Processors, Opening and Closing of Documents.	**1-Theoretical Lectures** **2- Practical Labs** **The course will use the following**	• MCQ • Essay questions • Assessment of the experimental
12	1	Word Processing (cont.)	Text creation and Manipulation; Formatting Text and		

			Paragraphs.	**teaching and learning methods:** • Board (Normal or Smart) • Computers • Presentation software such as PowerPoint	application on the Lab
13	1	Word Processing (cont.)	Using Templates for Document Creation.		
14	1	Word Processing (cont.)	Creating and Managing Tables, Utilizing Styles and Themes.		
15	1	Word Processing (cont.)	Spell Check and Grammar Tools, Using Headers and Footers.		

11.Course Evaluation
MCQ Essay questions Assessment of the experimental application on the Lab

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

1. Course Name:
Medical Terminology
2. Course Code:
Term.11
3. Semester / Year:
1st semester / 1st year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
First stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
15
7. Course administrator's name (mention all, if more than one name)
Name: Assistant Professor Dr. Haitham Tafash Email:
8. Course Objectives

Course Objectives	**–This course provides the student with basic knowledge and skills in medical terminolo This course provides the student with basic knowledge and skills in use standard medi terms in years of study in the medical college. –Providing the student with the basic knowledge and skills in conducting scientific medi ward part that formed the typical 'Medical Terms'.**

9. Teaching and Learning Strategies	
Strategy	1-Theoretical Lectures 2- Practical Labs

10. Course Structure

Week	Hours	Unit name/topic/ Lecturer name	Teaching method	Evaluation method
(First course); 1. Analyzing Medical Terms. 2. Common Prefixes and Suffixes. 3. Common Prefixes and Suffixes. 4. Common Prefixes and Suffixes. 5. Organization of the Body. 6. Organization of the Body.	1 1	Medical Terms	Different methods. Classic lecture. Group discussion. Practical sessions.	- Quizzes. - Quick check. - End-of-Chapter Exercises

7. The Skeletal System. 8. The Muscular System. 9. Nervous System. 10. The Respiratory System. 11. The Digestive System 12. Cardiovascular System. 13. Cardiovascular System. 14. Cardiovascular System. 15. Revision	1 1 1 1 1 1 1 1			-Discussion. -Theoretical exams.; - 1. 1st course (mid-exam. + end of exam.). - 2. 2nd course (mid-exam. + end exam.)

11.Course Evaluation	
MCQ Essay questions	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Medical Terminology Textbooks. **.Lectures from many textbooks of medical terminology.**
Main references (sources)	**WHO, and** Wolters Kluwer contact. A logical organization guides students through the basic medical terminology, word parts, and word analysis.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Human rights
2. Course Code:
Comp.1
3. Semester / Year:
1st semester / 1st year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
First stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
15
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Email:
8. Course Objectives

Course Objectives	1- تعريف الطلبة بحقوق الانسان، وواجباته تجاه مجتمعه. 2- متابعة الجذور التاريخية لمعرفة حقوق الانسان ومراحل تطورها عبر العصور.

9. Teaching and Learning Strategies	
Strategy	- محاضرات حضورية - حلقات نقاشية

10. Course Structure

الاسبوع	الساعات	مخرجات التعلم المطلوبة	اسم الوحدة /الموضوع	طريقة التعليم	طريقة التقييم
1	1	الاطلاع على البرنامج الدراسي	عرض المنهاج على الطلبة والخطة الدراسية بغية الالتزام بتنفيذها	محاضرات	لا يوجد
2	1	التعرف بأنواع الحقوق ومجالات تطبيقها	-مفهوم الحق وحقوق الانسان - مفهوم الانسان -خصائص وانواع حقوق الانسان.	محاضرات	نقاش
3	1	التطور التاريخي لفكرة حقوق الانسان	حقوق الانسان في العصور القديمة. -فكرة حقوق في الحضارة الغربية	محاضرات	نقاش

4	1		- حقوق الانسان في العصور الوسطى - حقوق الانسان في العصر الراهن	محاضرات ومناقشات	امتحان يومي
5	1		-حقوق الانسان في الشرائع السماوية-	محاضرات	نقاش
6	1		اهم حقوق الانسان التي نصت عليها الشريعة الاسلامية	محاضرات	امتحان مفاجئ
7	1		الاساس الفكري لتطور حقوق الانسان	محاضرات	
8	1		امتحان ١	امتحان تحريري	امتحان تحريري
9	1		نظريات القانون الطبيعي لحقوق الانسان	محاضرات	
10	1		مفهوم المواطنة – حقوق المواطن وواجباته	محاضرات	نقاش
11	1		دور المنظمات غير الحكومية في الدفاع عن حقوق الانسان	محاضرات ومناقشات	نقاش
12	1		حقوق الانسان في الدساتير العراقية السابقة	محاضرات ومناقشات	
13	1		الحقوق والحريات في الدستور العراقي لعام ٢٠٠٥	محاضرات ومناقشات	نقاش
13	1	التعريف بالإعلان العالمي لحقوق الانسان واهميته	الاعلان العالمي لحقوق وحريات الانسان	محاضرات	نقاش
14	1		حق المرأة – حق الطفل في الاسلام	محاضرات + نقاش	نقاش
15	1		امتحان ٢	امتحان تحريري	امتحان تحريري

11.Course Evaluation

- امتحانات تحريرية
- امتحانات شفوية

الحضور اليومي•

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	مادة (حقوق الانسان) الاستاذ الدكتور حميد حنون
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1st year / 2nd semester

Course Description Form

1. Course Name:	
Biochemistry	
2. Course Code:	
CHMMED-12	
3. Semester / Year:	
2nd semester / 1st year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
First stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
75	
7. Course administrator's name (mention all, if more than one name)	
Name: Name:Dr.Mustafa abdulkarime Dr.Walied Khalied Email:	
8. Course Objectives	
Course Objectives	**The course aims to introduce the importance of the basics of biochemistry and the types and properties of life compounds to medical students and to introduce them to the basic concepts of reactions and terms that they will need in their later studies.**
9. Teaching and Learning Strategies	
Strategy	Teaching Strategies include theoretical lectures, discussions, practical part a conducting experiments. Evaluation is based on the grades of the theoretical a practical exam and short exams
10. Course Structure	

The week	hours	Unit name/topic	Required learning outcomes	Evaluation method	Teaching method
1	3 h theory +3 h practical	- General introduction of biochemistry - Carbohydrates (importance, classification) Monosaccharides Structures and types of Monosaccharides	Learn the principles of biochemistry and the importance biological for carbohydrates and classification , structures , types and their derivatives .	Summative and formative assessment	Lectures, Small Group Discussions, Laboratory Sessions
2	3 h theory +3 h practical	- Disaccharides, Oligosaccharides - Homo- and Heteropolysaccharides. - Sugar derivatives	Describe the formation, structure, and functions of disaccharides and oligosaccharides.	Summative and formative assessment	Lectures, Small Group Discussions, Laboratory Sessions
3	3 h	- Lipids,		Summati	Lectures,

	theory +3 h practical	Biological roles of lipids. Fatty acids classification, lipids classification, Triglycerides.	Explain the biological roles and importance of lipids.	ve and formative assessment	Small Group Discussions, Laboratory Sessions
4	3 h theory +3 h practical	- Compound lipids (phospholipids, Sphingolipids, lipoprotein	Learn about the peptides (structures, their derivatives and its role in medicine.	Summative and formative assessment	Lectures, Small Group Discussions, Laboratory Sessions
5	3 h theory +3 h practical	- Eicosanoids (prostaglandins, thromboxanes, Leukotrienes), Steroids	Learn about the Nucleic acids and their main types in human body	Summative and formative assessment	Lectures, Small Group Discussions, Laboratory Sessions
6	3 h theory +3 h practical	- Proteins, Amino acids (structures, classification)	Identify the structures and classification of amino acids and their role in protein formation.	Summative and formative assessment	Lectures, Small Group Discussions, Laboratory Sessions
7	3 h theory +3 h practical	- Peptides, Structural levels of proteins	Explain peptide bonds and the four structural levels of proteins.	Summative and formative assessment	Lectures, Small Group Discussions, Laboratory Sessions
8	3 h theory +3	- Globular and fibrous proteins,	Differentiate between globular,	Summative and formati	Lectures, Small Group Discussi

	h practical	Compound and derivative proteins	fibrous, compound, and derivative proteins.	ve assessment	ons, Laboratory Sessions
9	3 h theory +3 h practical	- Nucleic acids	Understand the structure and function of nucleic acids.	Summative and formative assessment	Lectures, Small Group Discussions, Laboratory Sessions
10	3 h theory +3 h practical	- DNA	Describe the structure, replication, and role of DNA.	Summative and formative assessment	Lectures, Small Group Discussions, Laboratory Sessions
11	3 h theory +3 h practical	- Types of RNA, Role of nucleic acids in proteins synthesis	Identify the types of RNA and their biological role	Summative and formative assessment	Lectures, Small Group Discussions, Laboratory Sessions
12	3 h theory +3 h practical	- Enzymes (structure, classification)	Get to know what it is Enzymes and their types Inside the body of a living organism And Identify the kinetics of enzymatic reactions that occur inside the body	Summative and formative assessment	Lectures, Small Group Discussions, Laboratory Sessions
13	3 h theory +3	- Factors affecting enzymatic	Analyze factors influencing	Summative and formati	Lectures, Small Group Discussi

	h practical	reaction, Enzymes specificity, enzymes kinetics	enzyme activity, specificity, and kinetics.	ve assessment	ons, Laboratory Sessions
14	3 h theory +3 h practical	- Regulation of metabolic pathways, Enzymes inhibition	Understand the regulation of metabolic pathways and enzyme inhibition mechanisms.	Summative and formative assessment	Lectures, Small Group Discussions, Laboratory Sessions
15	3 h theory +3 h practical	- Enzymes in clinical diagnosis and genetic diseases	Discuss the role of enzymes in clinical diagnosis and genetic disorders.	Summative and formative assessment	Lectures, Small Group Discussions, Laboratory Sessions

11.Course Evaluation	
Theoretical and practical exams, short quizzes, and assessments of laboratory performance	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Biochemistry by Stryer
Main references (sources)	Lehninger Biochemistry
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Medical physics	
2. Course Code:	
PHYPhs-11	
3. Semester / Year:	
2nd semester / 1st year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
First stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
75	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Email:	
8. Course Objectives	
Course Objectives	**Understanding the Role of Physics in Medicine: To familiarize students with the applicati of physics in diagnostic and therapeutic techniques.** **Learning Key Technologies: To provide knowledge on medical technologies such as ima (X-ray, MRI, CT), radiation therapy, and ultrasound.**
9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the Professor. Practical training medical laboratories.the content is presented using slides or whiteboards, with the of illustrations and diagrams to help understand the material (PowerPoint). students are divided into small groups to discuss specific topics under the supervisio Professor. The use of online platforms is to provide recorded lectures, references, interactive questions.
10. Course Structure	

Week	Hours	Unit name/topic	Required learning outcomes	Teaching Method	Assessment Method
1	2	Physics of Ultrasound part (1)	Ultrasound Waves Reflection, Transmission and Absorption, Attenuation of Ultrasound Wave, Half Value Thickness.	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture + writing a report on the results of the work
2	2	Physics of Ultrasound part (1)	Generation of ultrasound, Mechanism of ultrasound imaging, Types of ultrasound modes,		
3	2	Physics Eyes and vision	Defective vision and its correction, Instruments used in ophthalmology		
4	2	Light in medicine	Electromagnetic radiation, the energy carried by light, Measurement of light and its units, Applications of visible light, microscopes, Ultraviolet, Infrared, Microwave radiation in medicine		
5	2	Laser in Medicine	Laser types, effect of Laser, Laser-tissue interactions		
6	2	Laser in Medicine	Applications in medicine		
7	2	Types of rays	Light Rays, X-rays, Gamma Rays, Cosmic Rays, Alpha Rays, Beta Rays		
8	2	Physics of diagnostic x rays	Physics of X-Rays Imaging, X–ray Tube, Types of X-Rays, X-ray Energy		

			Spectra, Attenuation of X-rays,		
9	2	Physics of diagnostic x rays	Interaction of X-Rays with Matter, Making an X-Ray Image, Radiographic Film, Contrast media		
10	2	Physics of Magnetic Resonance Imaging (MRI)	The principle of NMR, Types of Magnets, Image production by MRI		
11	2	Physical Principles for imaging By CT Scan Technique	The structure of CT scan machine, Working Principle of CT scan, Physical Principle of CT scanning, Types of CT machines		
12	2	Physics of nuclear medicine	Basic Physics for Nuclear Medicine, Radiopharmaceutical, Medical imaging by radiation		
13	2	Physics of Radiation Therapy	Radiation Dose, Factors affecting radiodensity, The Oxygen enhancement of radiation effect, Effect of Radiation on Cancer		
14	2	physical safety	Radioactive pollution		
15	2	physical safety	Ecological effect of disposed radioactive substances,		

11.Course Evaluation	
Theoretical and practical exams, short quizzes, and assessments of laboratory performance	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Medical instrumentation application and design (John G. Webster) Ultrasound in medicine and biology (Charles l. l. Chou)
Main references (sources)	

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

1. Course Name:
Human Anatomy
2. Course Code:
ANTAnt-21
3. Semester / Year:
2nd semester / 1st year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
First stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
75
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Email:
8. Course Objectives

Course Objectives	**1- Introduce students to basic anatomical concepts.** **2- Describe the anatomy of the upper and lower extremities.** **3- Direct students towards the importance of anatomy in clinical practice.**

9. Teaching and Learning Strategies	
Strategy	1. Theoretical lectures 2. Practical laboratories 3. Explanations using presentation slides 4. Explanations using plastic samples

10. Course Structure

Weeks	Hours	Required learning outcomes	Unit name/topic	Teaching methods	Assessment method
1	2=theoretical 3=practical	Lower limb anatomy The	Lower limb anatomy The	Theoretical lectures and	Theoretical and practical exams,

		Gluteal region	Gluteal region	practical labs	discussion sessions and reports
2	2=theoretical 3=practical	Lower limb anatomy Nerves of the Gluteal Region	Lower limb anatomy Nerves of the Gluteal Region	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
3	2=theoretical 3=practical	Hip joint	Hip joint	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
4	2=theoretical 3=practical	Femur	Femur	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
5	2=theoretical 3=practical	Thigh	Thigh	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
6	2=theoretical 3=practical	Fascia of the thigh	Fascia of the thigh	Theoretical lectures and practical labs	Theoretical and practical exams, discussion

					sessions and reports
7	2=theoretical 3=practical	Thigh fascia compartment	Thigh fascia compartment	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
8	2=theoretical 3=practical	Medial Fascial compartment	Medial Fascial compartment	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
9	2=theoretical 3=practical	Posterior Fascial compartment	Posterior Fascial compartment	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
10	2=theoretical 3=practical	Lower limb anatomy Popliteal fossa. Anterior and lateral compartments of the leg	Lower limb anatomy Popliteal fossa. Anterior and lateral compartments of the leg	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
11	2=theoretical 3=practical	Lower limb anatomy Back of foot. Posterior compartme	Lower limb anatomy Back of foot. Posterior compartme	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions

		nt of leg	nt of leg		and reports
12	2=theoretical 3=practical	Lower limb anatomy Knee joint. Sole of foot	Lower limb anatomy Knee joint. Sole of foot	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
13	2=theoretical 3=practical	Lower limb anatomy Ankle joint and foot joints. Venous drainage of the lower extremity	Lower limb anatomy Ankle joint and foot joints. Venous drainage of the lower extremity	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
14	2=theoretical 3=practical	Lower limb anatomy Lower extremity nerve injuries. Standing and walking.	Lower limb anatomy Lower extremity nerve injuries. Standing and walking.	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
15	2=theoretical 3=practical	Lower limb anatomy Lower extremity nerve injuries. Standing and walking.	Lower limb anatomy Lower extremity nerve injuries. Standing and walking.	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports

11.Course Evaluation

Following up on attendance and reasons for non-attendance
Following up on educational supervision regarding the material
Evaluating students' answers to exam questions related to this aspect

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Moore KL & Dalley AF (2006): Clinically Orie Anatomy. 5th Ed. Lippincott Williams & Wilk Philadelphia
Main references (sources)	Snell RS (2011): Clinical anatomy by regions. 9th Williams & Wilkins. Philadelphia
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Biology
2. Course Code:
ANTBio-12
3. Semester / Year:
2nd semester / 1st year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
First stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
90
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Email:
8. Course Objectives

Course Objectives	**1.Introduce students to basic Biology concepts.** **2.The student acquires the scientific background and skill to learn Biology examination a Also, knowledge of the basis of genetics and cellular formations of the various body components.** **3.The student understands the importance of the structure and function of organs and th close relationship between tissues, physiology, biochemistry.**

9. Teaching and Learning Strategies	
Strategy	1.Theoretical lectures 2. Practical laboratories 3. Explanations using presentation slides 4. Explanations using plastic samples

10. Course Structure

Weeks	Hours	Unit name/topic	Required learning outcomes	Teaching method	Assessment method
1	2=theoretical 3= practical	Introduction to cell biology The types of cells	Introduction to cell biology The types of cells	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
2	2=theoretical 3= practical	Cytochemistry The animal cell	Cytochemistry The animal cell	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
3	2=theoretical 3= practical	The plasma membrane The cell coat& cell junctions	The plasma membrane The cell coat& cell junctions	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
4	2=theoretical 3= practical	The cytoplasm &cytoskeleton The cell organelles	The cytoplasm &cytoskeleton The cell organelles	lectures ,tutorials and laboratory session	Quizzes (theory and practical)

				s	
5	2= theoretical. 3= practical	The endomembrane system (I) The endomembrane system (II)	The endomembrane system (I) The endomembrane system (II)	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
6	2= theoretical. 3= practical	The centrosomes & nonliving inclusions The nucleus	The centrosomes & nonliving inclusions The nucleus	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
7	2= theoretical. 3= practical	The cell divisions (mitosis) The cell divisions (meiosis)	The cell divisions (mitosis) The cell divisions (meiosis)	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
8	2= theoretical. 3= practical	The epithelial tissues The connective tissues System (II)	The epithelial tissues The connective tissues System (II)	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
9	2= theoretical. 3=	Midterm Examination The muscular &	Midterm Examination The muscular &	lectures ,tutorials and	Quizzes (theory and practical

	practical	nervous tissues	nervous tissues	laboratory sessions	)
10	2= theoretical. 3= practical	<u>The lower organisms:</u> The Kingdom monera The Protozoa (I)	<u>The lower organisms:</u> The Kingdom monera The Protozoa (I)	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
11	2= theoretical. 3= practical	The Protozoa (II) The Phylum Sarcodina	The Protozoa (II) The Phylum Sarcodina	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
12	2= theoretical. 3= practical	The Phylum Zoomastigina The Phylum ciliaphora	The Phylum Zoomastigina The Phylum ciliaphora	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
13	2= theoretical. 3= practical	The Phylum sporozoa The Helminthes	The Phylum sporozoa The Helminthes	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
14	2= theoretic	The Class trematoda	The Class trematoda	lectures	Quizzes (theory

	al. 3= practical	The Class cestoda	The Class cestoda	,tutorials and laboratory sessions	and practical)
15	2= theoretical. 3= practical	The Phylum nematehelminthes The Anthropodes & Overview	The Phylum nematehelminthes The Anthropodes & Overview	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)

11.Course Evaluation	
Following up on attendance and reasons for non-attendance Following up on educational supervision regarding the material Evaluating students' answers to exam questions related to this aspect	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	BASIC HISTOLOGY (11th. ed)
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Computer Science	
2. Course Code:	
Comp.1	
3. Semester / Year:	
2nd semester / 1st year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
First stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
45	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Email:	
8. Course Objectives	
Course Objectives	**•Utilize the computer for fundamental tasks.** **•identify and discuss the hardware components of the computer system.** **•Creating documents using a word processor and creating presentations.** **•Conducting research on the internet.**
9. Teaching and Learning Strategies	
Strategy	1-Theoretical Lectures 2- Practical Labs
10. Course Structure	

Week	Hours	Unit name/topic	Required learning outcomes	Teaching Method	Assessment Method
1	1	Spread Sheet	Introduction to Spreadsheet Software, Creating and Formatting Worksheets.	**3- Theoretical Lectures** **4- Practical Labs** **The course will use the following teaching and learning methods:** • Board (Normal or Smart) • Computers • Presentation software such as PowerPoint	• MCQ • Essay questions • Assessment of the experimental application on the Lab
2	1	Spread Sheet (Cont.)	Sorting and Filtering Data, Using Formulas and Functions, Using Formulas and Functions, sing Pivot Tables for Data Analysis		
3	1	Spread Sheet (Cont.)	Data Validation and Error Checking, Data Visualization: Creating Charts and Graphs.		
4	1	Presentation Software	Introduction to Presentation Software, Overview of Popular Presentation Tools, Creating a New Presentation.		
5	1	Presentation Software (Cont.)	Using Templates and Themes, Inserting and Formatting Text and Images, Transition and Animation Effects		
6	1	Presentation Software (Cont.)	Using Speaker Notes and Timers, Advanced Features: Hyperlinks and Action Buttons.		
7	1	Presentation Software (Cont.)	Troubleshooting Common Presentation issues, Future Trends in Presentation Technology.		
8	1	Introduction to Internet and Web	Computer networks Basic; LAN, WAN.		

		Browsers			
9	1	Introduction to Internet and Web Browsers (Cont.)	Concept of Internet and its Applications; connecting to internet.		
10	1	Introduction to Internet and Web Browsers (Cont.)	World Wide Web; Web Browsing software's, Search Engines.		
11	1	Introduction to Internet and Web Browsers (Cont.)	Understanding URL; Domain name; IP Address.	**1-Theoretical Lectures** **2- Practical Labs** **The course will use the following teaching and learning methods:** • Board (Normal or Smart) • Computers • Presentation software such as PowerPoint	• MCQ • Essay questions • Assessment of the experimental application on the Lab
12	1	Communications and Emails	Basics of electronic mail; Getting an email account; Sending and receiving emails: Accessing sent emails; Using Emails; Document collaboration.		
13	1	Communications and Emails (Cont.)	Sending and receiving emails; Accessing sent emails; Using Emails; Document collaboration.		
14	1	Introduction to Cloud Computing and Services	Definition of Cloud Computing and its concept, Cloud-Based Office Suites (Office 365 and Google Workspace).		
15	1	Introduction to Cloud Computing and Services (Cont.)	Google Workspace: Google Docs, Google Sheets, Google Drive, Google Meet		

11.Course Evaluation
MCQ Essay questions Assessment of the experimental application on the Lab

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

1. Course Name:
Medical Terminology
2. Course Code:
Term.11
3. Semester / Year:
2nd semester / 1st year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
First stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
15
7. Course administrator's name (mention all, if more than one name)
Name: Assistant Professor Dr. Haitham Tafash Email:
8. Course Objectives

Course Objectives	**-This course provides the student with basic knowledge and skills in medical terminol This course provides the student with basic knowledge and skills in use standard medi terms in years of study in the medical college. -Providing the student with the basic knowledge and skills in conducting scientific medi ward part that formed the typical 'Medical Terms'.**

9. Teaching and Learning Strategies	
Strategy	Theoretical Lectures

10. Course Structure

Week	Hours	Unit name/topic/ Lecturer name	Teaching method	Evaluation method
1. The Lymphatic System and Immunity. 2. The Endocrine System. 3. The Urinary System. 4. The Reproductive System. 5. The Special Sense of Sight and Hearing. 6. Integumentary System. 7. External common term systemic sheets. 8. External common term systemic sheets. 9. External common term systemic sheets. 10. External common term systemic sheets. 11.,12.,13.,14. Revision. **15. Exam.**	1 1 1 1 1 1 1 1 1 1	Medical Terms	Different methods. Classic lecture. Group discussion. Practical sessions.	- Quizzes. - Quick check. - End-of-Chapter Exercises -Discussion. -Theoretical exams.; - 1. 1st course (mid-exam. + end of exam.). - 2. 2nd course (mid-exam. + end exam.)

11.Course Evaluation	
MCQ Essay questions	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Medical Terminology Textbooks. **.Lectures from many textbooks of medical terminology.**

Main references (sources)	**WHO, and** Wolters Kluwer contact. A logical organization guides students through the basic medical terminology, word parts, and word analysis.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
جرائم حزب البعث	
2. Course Code:	
3. Semester / Year:	
2nd semester / 1st year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
First stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
15	
7. Course administrator's name (mention all, if more than one name)	
Name: Email:	
8. Course Objectives	
Course Objectives	- ان يتعرف الطالب على الاوضاع التي كانت سائدة في العراق والتي ادت الى تأسيس حزب البعث - ان يتعرف الطالب على الصراع الذي كان سائد بين الاحزاب خلال تلك المرحلة - ان يتعرف الطالب على اوضاع البلاد بعد تأسيس حزب البعث
9. Teaching and Learning Strategies	
Strategy	Theoretical Lectures
10. Course Structure	

الأسبوع	الساعات	مخرجات التعلم المطلوبة	اسم الوحدة / أو الموضوع	طريقة التعليم	طريقة التقييم
١	1	جرائم نظام البعث وفق قانون المحكمة الجنائية العراقية ٢٠٠٥	جرائم نظام البعث وفق قانون المحكمة الجنائية العراقية ٢٠٠٥	محاضرات نظرية	امتحان نظري امتحان نظري
٢	1	اقسام الجرائم	اقسام الجرائم	محاضرات نظرية	
٣ – ٤	1	انواع الجرائم الدولية	انواع الجرائم الدولية	محاضرات نظرية	
٥	1	الجرائم النفسية والاجتماعية واثارها وابرز انتهاكات النظام البعثي في العراق	الجرائم النفسية والاجتماعية واثارها وابرز انتهاكات النظام البعثي في العراق	محاضرات نظرية	
٦	1	آلية الضغط والعقاب النفسي	آلية الضغط والعقاب النفسي	محاضرات نظرية	
٧	1	عسكرة المجتمع	عسكرة المجتمع	محاضرات نظرية	
٨- ٩	1	انتهاكات القوانين العراقية	انتهاكات القوانين العراقية	محاضرات نظرية	
١٠	1	بعض قرارات الانتهاكات السياسية والعسكرية لنظام البعث	بعض قرارات الانتهاكات السياسية والعسكرية لنظام البعث	محاضرات نظرية	
١١	1	اماكن السجون والاحتجاز لنظام البعث	اماكن السجون والاحتجاز لنظام البعث	محاضرات نظرية	
١٢	1	الجرائم البيئية لنظام البعث في العراق	الجرائم البيئية لنظام البعث في العراق	محاضرات نظرية	
١٣	1	استعمال الاسلحة المحرمة دوليا ومخاطر الالغام	استعمال الاسلحة المحرمة دوليا ومخاطر الالغام	محاضرات نظرية	
١٤	1	التلوث بالمواد المشعة	التلوث بالمواد المشعة	محاضرات نظرية	
١٥	1	تدمير المدن والقرى (سياسة الارض المحروقة)	تدمير المدن والقرى (سياسة الارض المحروقة)	محاضرات نظرية	
١٦	1	تجفيف الاهوار	تجفيف الاهوار	محاضرات نظرية	
١٧	1	تجريف بساتين النخيل والاشجار والمزروعات	تجريف بساتين النخيل والاشجار والمزروعات	محاضرات نظرية	
١٨	1	جرائم المقابر الجماعية	جرائم المقابر الجماعية	محاضرات نظرية	
١٩ - ٢٠	1	احداث المقابر الابادة الجماعية المرتكبة من النظام البعثي في العراق	احداث المقابر الابادة الجماعية المرتكبة من النظام البعثي في العراق	محاضرات نظرية	
٢١	1	التصنيف الزمني لمقابر الابادة الجماعية في العراق للمدة ١٩٦٣-	التصنيف الزمني لمقابر الابادة الجماعية في العراق للمدة ١٩٦٣-	محاضرات نظرية	

		٢٠٠٣	٢٠٠٣		
٢٢	1	مقابر الابادة الجماعية المرتكبة من قبل نظام البعث البائد للمدة ١٩٧٩- ٢٠٠٣م.	مقابر الابادة الجماعية المرتكبة من قبل نظام البعث البائد للمدة ١٩٧٩- ٢٠٠٣م.	محاضرات نظرية	
٢٣	1	مقابر الابادة الجماعية لضحايا مجزرة الانفال للمدة ١٩٨٧- ١٩٨٨م.	مقابر الابادة الجماعية لضحايا مجزرة الانفال للمدة ١٩٨٧- ١٩٨٨م.	محاضرات نظرية	
٢٤	1	موقع طريق التنومة- كباسي	موقع طريق التنومة- كباسي	محاضرات نظرية	
٢٥	1	مقبرة خان الربع	مقبرة خان الربع	محاضرات نظرية	
٢٦	1	مقبرة الامام بكر	مقبرة الامام بكر	محاضرات نظرية	
٢٨-٢٧	1	مقبرة خانقين- بختياري	مقبرة خانقين- بختياري	محاضرات نظرية	

2nd year / 1st semester

Course Description Form

1. Course Name:	
Medical physiology	
2. Course Code:	
PHYPhy-22	
3. Semester / Year:	
1st semester / 2nd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
2nd stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
150	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Email:	
8. Course Objectives	
Course Objectives	**The aim of medical physiology study for second-stage students focusing on the followir topics is to establish a foundational understanding of how the human body functions at cellular and system levels. The key objectives are:** **•Recognize the fundamental roles that cells play in communication through signaling pathways, cellular metabolism, and the flow of ions and chemicals across membranes.** **•Learn about the components of blood, such as red blood cells, white blood cells, plasm and platelets, as well as their makeup and functions. Examine the mechanisms behind b coagulation, immunological response, and oxygen delivery.** **•Learn about the physiology of blood arteries, blood flow control, and the role of the hea as a pump.**
9. Teaching and Learning Strategies	
Strategy	1-theoretical lectures 2-practical labs
10. Course Structure	

Week	hours	Unit name/topic	Required learning outcomes	Teaching Method	Assessment Method
١	4-Theory	**Cell physiology**	- Membrane junctions - Body fluid - Edema	Theoretical lectures	Quizzes short essay
2	4-Theory	**Blood Physiology**	- Functions of blood - Red blood cells	Theoretical lectures	Quizzes short essay
3	4-Theory		- Hemoglobin - Anemia - White blood cells - Hemostasis	Theoretical lectures	Quizzes short essay
4	4-Theory		Pathways of coagulation - Hemophilia - Blood groups - Immunity	Theoretical lectures	Quizzes short essay
5	4-Theory	**Physiology of Cardiovascular system**:	-Introduction to cardiovascular physiology -conducting system -Cardiac contractile cell -Mechanical events in cardiac cycle.	Theoretical lectures	Quizzes short essay
6	4-Theory		- Cardiac output. - Function of the atria as pumps - ECG - Heart sounds and murmurs	Theoretical lectures	Quizzes short essay

7	4-Theory		- Anatomic consideration. - Hemodynamics - Blood pressure	Theoretical lectures	Quizzes short essay
8	4-Theory		- Circulatory regulation. - Circulation through special regions. - Cardiovascular. Hemostasis.	Theoretical lectures	Quizzes short essay
9	4-Theory		- Arrhythmia. - Hypotension. - Hypertension. - Heart failure.	Theoretical lectures	Quizzes short essay
10	4-Theory	**Physiology of Respiratory system**	-Physiological functions of the lungs. -Process of respiration mechanics of breathing. - Compliance of the Lung.	Theoretical lectures	Quizzes short essay
11	4-Theory		- Compliance of the lung, role of surfactant. - Transport of O2 by the blood.	Theoretical lectures	Quizzes short essay
12	4-Theory		- Transport of CO2 by the blood. - Role of the respiratory system in acid-	Theoretical lectures	Quizzes

			base regulation. - Regulation of breathing.		
13	4-Theory	**Muscle and nerve**	- Types of muscle fiber. - Excitation-contraction coupling. - Contraction of a smooth muscle cell. - Mechanical properties in the two muscles. - Changes in voltage-gated membrane channels.	Theoretical lectures	short essay
14	4-Theory		- Anatomic and cellular features of neurons and its relation to their function. - Role of the neuronal cytoskeleton. - The molecular mechanisms of ionic conductance events .	Theoretical lectures	short essay
15	4-Theory	**Physiology of autonomic nervous system**	- The role of the autonomic nervous system. - The anatomic and physiologic bases for	Theoretical lectures	short essay

			division of the autonomic nervous system. - The neurotransmitters. - Types of autonomic innervations and reflex arc. - Neurotransmitter release.		

11.Course Evaluation	
MCQ Essay questions Assessment of the experimental application on the Lab	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Biochemistry	
2. Course Code:	
CHMBio-21	
3. Semester / Year:	
1st semester / 2nd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
Second stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
90	
7. Course administrator's name (mention all, if more than one name)	
Name:Dr.Mustafa Saleam Dr.Abdullah Ali Dr.Mohamed Amer Dr.Ayad abod Email: mustafa.saleam@uofallujah.edu.iq	
8. Course Objectives	
Course Objectives	***Introduce the importance of metabolic reactions within the cells of the human body** ***The metabolic reactions relationship to various diseases for medical students**
9. Teaching and Learning Strategies	
Strategy	Teaching Strategies include theoretical lectures, discussions, practical part and conducting experiments. Evaluation is based on the grades of the theoretical and practical exam and short exams
10. Course Structure	

Weeks	Hours	Unit or subject name	Required learning outcomes	Teaching method	Evaluation method
1	٣ h theory +٣ h practical	- Introduction to the Vitamins	Understand the basic roles and importance of vitamins in human health.	Theoretical exams, discussion hours and practical exams	Summative and formative assessment
2	٣ h theory +٣ h practical	-Structure of vitamins	Learn the chemical composition and classification of vitamins.	Theoretical exams, discussion hours and practical exams	Summative and formative assessment
3	٣ h theory +٣ h practical	Fat-Soluble Vitamins (A, D, E, K)	Recognize their functions, sources, and effects of deficiency or excess.	Theoretical exams, discussion hours and practical exams	Summative and formative assessment
4	٣ h theory +٣ h practical	Introduction to the Minerals And Trace Elements	Identify important minerals in the body, their function and metabolic disorders , with following points	Theoretical exams, discussion hours and practical exams	Summative and formative assessment
5	٣ h theory +٣ h practical	Minerals And Trace Elements	Understand their roles in bodily functions and health maintenance.	Theoretical exams, discussion hours and practical exams	Summative and formative assessment
6	٣ h theory +٣ h practical	- Daily Intakes and deficiency of Sodium, Potassium, Magnesium, Manganese, Zinc, Copper, Selenium	Identify recommended intakes and symptoms of deficiencies.	Theoretical lectures	Summative and formative assessment
7	٣ h theory +٣ h practical	Endocrinology	Understand Hormone Function,	Theoretical exams, discussion hours and practical exams	Summative and formative assessment

8	٣ h theory +٣ h practical	-Functions And Importance Of Hormones	Learn how hormones regulate bodily processes.	Theoretical exams, discussion hours and practical exams	Summative and formative assessment
9	٣ h theory +٣ h practical	-Peptide H. Protein H, Amino Acid Derivative and hormones	Understand the structure and types of hormones.	Theoretical exams, discussion hours and practical exams	Summative and formative assessment
10	٣ h theory +٣ h practical	-Biochemical Actions Of Hormones, Regulation Of Hormonal Actions And Secretions -Types of Endocrine Dysfunction	Explore how hormones function and are controlled.	Theoretical exams, discussion hours and practical exams	Summative and formative assessment
11	٣ h theory +٣ h practical	General introduction to the Carbohydrates metabolism	Understand the role of carbohydrates in energy production.	Theoretical exams, discussion hours and practical exams	Summative and formative assessment
12	٣ h theory +٣ h practical	Carbohydrates metabolism: Digestion And Absorption Glycolysis, Gluconeogenesis Glycogenesis,	Learn how carbohydrates are broken down and absorbed.	Theoretical exams, discussion hours and practical exams	Summative and formative assessment
13	٣ h theory +٣ h practical	Carbohydrates metabolism: Identify the steps of sugar oxidation and phosphorylation	Identify key metabolic processes.	Theoretical exams, discussion hours and practical exams	Summative and formative assessment
14	٣ h theory +٣ h practical	Carbohydrates metabolism: -Identify the condition of sugar metabolism disorder in the body and what diseases arise from it -Diabetes	Recognize conditions like diabetes and their causes.	Theoretical exams, discussion hours and practical exams	Summative and formative assessment
15	٣ h theory +٣ h practical	Carbohydrates metabolism: Identify diseases and disorders and know the causes of the disorder	Identify disorders related to carbohydrate metabolism and their causes.	Theoretical exams, discussion hours and practical exams	Summative and formative assessment

11.Course Evaluation	
Theoretical lectures, discussion hours and practical experiments	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1.Lippincott's Biochemistry
Main references (sources)	2.Murray RK, Bender DA, Botham KM , Kennelly PJ, Rodwell , & Anthony Weil P (2009) : Harper's Illustrated Biochemistry, by The McGraw-Hill Companies, Inc.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Embriology
2. Course Code:
ANTEmb-21
3. Semester / Year:
1st semester / 2nd year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
Second stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
15
7. Course administrator's name (mention all, if more than one name)

8. Course Objectives	
Course Objectives	**1. Understanding developmental processes to provide a comprehensive understanding o the stages and mechanisms of embryonic development, from fertilization to the formatio complex structures and organ systems.** **2. understand the clinical relevance of embryology, particularly in the context of congeni anomalies, reproductive technologies, and regenerative medicine.** **3.Teaching gametogenesis, bilaminar and trilaminar germ disc formation.**

9. Teaching and Learning Strategies	
Strategy	•Discussing embryological origins of congenital anomalies (e.g., cleft palate, spina bifida). •Integrating embryology into clinical case discussions during medical training. •Highlights the practical importance of embryology in diagnosing and treat conditions.

10. Course Structure

Weeks	Hours	Required learning outcomes	Unit or subject name	Teaching method	Assessment method
1	1= theory	Introduction to embryology. Importance of Embryology.	Introduction to embryology. Importance of Embryology.	lectures	Quizzes (theory)
2	1= theory	Female gametes. Stages of Maturation of Follicles, The	Female gametes. Stages of Maturation of Follicles, The	lectures	Quizzes (theory)

		Stages of Menstrual Cycle	Stages of Menstrual Cycle		
3	1= theory	Male gametes. Abnormal gametes.	Male gametes. Abnormal gametes.	lectures	Quizzes (theory)
4	1= theory	Ovarian cycle.	Ovarian cycle.	lectures	Quizzes (theory)
5	1= theory	Fertilization.	Fertilization.	lectures	Quizzes (theory)
6	1= theory	Cleavage & implantation of the zygote, The Abnormal Site of Implantation.	Cleavage & implantation of the zygote, The Abnormal Site of Implantation.	lectures	Quizzes (theory)
7	1= theory	The second week of gestation.	The second week of gestation.	lectures	Quizzes (theory)
8	1= theory	The3rdweek of gestation.	The3rdweek of gestation.	lectures	Quizzes (theory)
9	1= theory	Scheduled examination.	Scheduled examination.	lectures	Quizzes (theory)
10	1= theory	Organogenesis. Embryonic development from 4^{th} to 8^{th} week.	Organogenesis. Embryonic development from 4^{th} to 8^{th} week.	lectures	Quizzes (theory)
11	1= theory	Somites	Somites	lectures	Quizzes (theory)
12	1= theory	The fetal membranes.	The fetal membranes.	lectures	Quizzes (theory)
13	1= theory	The placenta.	The placenta.	lectures	Quizzes (theory)
14	1= theory	Teratology	Teratology	lectures	Quizzes (theory)
15	1= theory	The birth defects.	The birth defects.	lectures	Quizzes (theory)

11. Course Evaluation

1. Short exams
2. Theoretical mid-term exam
3. Theoretical final exam
4. Seminars.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Sadler TW (2000): Langman's medical embryology. 1 Ed.William & Wilkins. Philadelphia.

Main references (sources)	LARSEN'S HUMAN EMBRYOLOGY High-Yield Embryology-Lippincott Williams & Wilkins
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Anatomy
2. Course Code:
ANTAnt-22
3. Semester / Year:
1st semester / 2nd year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
Second stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
135
7. Course administrator's name (mention all, if more than one name)
8. Course Objectives

Course Objectives	**1- detailed knowledge about the human body's structure, including organs, tissues, and systems, and their interrelationships.** **2- Describe the anatomy of the thoracic cage, pelvis, head and neck, and abdomen.**

9. Teaching and Learning Strategies

Strategy	Linking the presentation of the basic material to the clinical benefit, Ideal use of time discussions with students.

10. Course Structure

Weeks	Hour	Subjects	Teaching methods	Assessment methods

1	3= theoretical 6 =practical	Chest Anatomy	Anatomy of the intercostal space. Pleura. Lung	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
2	3=theoretical 6 =practical	Chest Anatomy	Heart: Pericardium.	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
3	3=theoretical 6 =practical	Chest Anatomy	Anterior mediastinum. Superior mediastinum. Posterior mediastinum	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
4	3=theoretical 6 =practical	abdominal anatomy	Abdominal wall. Inguinal region and testicle	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
5	3=theoretical 6 =practical	abdominal anatomy	General organization of the peritoneum. Peritoneal spaces	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
6	3=theoretical 6 =practical	abdominal anatomy	Esophagus, stomach, spleen, duodenum, pancreas	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
7	3=theoretical 6=practical	abdominal anatomy	Liver and biliary system	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
8	3= theoretical 6 =practical	abdominal anatomy	Small intestine. Large intestine. Blood supply to the digestive system	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
9	3= theoretical 6 =practical	abdominal anatomy	Posterior abdominal wall:	Theoretical lectures and practical	Theoretical and practical exams, discussion sessions

				labs	and reports
10	3= theoretical 6 =practical	Pelvic anatomy	Pelvic walls 1	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
11	3= theoretical 6 =practical	Pelvic anatomy	Pelvic walls 2	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
12	3=theoretical 6=practical	Pelvic anatomy	Male internal reproductive organs.	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
13	3= theoretical 6 =practical	Pelvic anatomy	Female internal reproductive organs.	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
14	3= theoretical 6 =practical	Pelvic anatomy	Blood vessels and nerves in the pelvis	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
15	3= theoretical 6 =practical	Pelvic anatomy	Perineum: urogenital triangle. External genitalia. Anal triangle and ischiorectal fossa	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports

11. Course Evaluation

1. Short exams
2. Theoretical mid-term exam
3. Theoretical final exam
4. Seminars.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	- Moore KL & Dalley AF (2006): Clinically Oriented Anatomy. Ed. Lippincott Williams & Wilkins. Philadelphia

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

1. Course Name:	
Histology	
2. Course Code:	
3. Semester / Year:	
1st semester / 2nd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
Second stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
60	
7. Course administrator's name (mention all, if more than one name)	
8. Course Objectives	
Course Objectives	**1.Understand the basic principles of tissue preparation and staining techniques used in histology.** **2.Identify and differentiate between the four basic types of tissues: epithelial, connective muscular, and nervous.** **3.Recognize the histological features of various organs and understand their functional significance.**
9. Teaching and Learning Strategies	
Strategy	oDelivered in person or online, covering theoretical concepts of histology, includ tissue types, organ systems, and staining techniques. oUse of visual aids such as diagrams, photomicrographs, and animations to enha understanding.
10. Course Structure	

Weeks	Hours	Subjects	Teaching method	Assessment method
1	2= Theory 2= Practical	Epithelial tissue, classification & function. Membranes and cell adhesion & cell surface specialization.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
2	2= Theory 2= Practical	Epithelial glands. Connective tissue ground substance & types of fibers.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
3	2= Theory 2= Practical	Connective tissue cells. Types of connective tissue	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
4	2= Theory 2= Practical	Fiber typing.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
5	2= Theory 2= Practical	Modified connective tissue: Cartilage. Bone & ossification.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
6	2= Theory 2= Practical	Blood & blood cells Heamoposis	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
7	2= Theory 2= Practical	Muscles: skeletal muscles. Mechanism of contraction	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
8	2= Theory 2= Practical	Cardiac & smooth muscles. Skin :Epidermis , Dermis & subcutaneous tissue.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
9	2= Theory 2= Practical	Skin and Glands of the skin**.**	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
10	2= Theory 2= Practical	Midterm exam (Theory). Hair and Hair follicle	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
11	2= Theory 2= Practical	Synapses & supporting tissue Nerve fibers, nerve and ganglia Cerebrum, Cerebellum & spinal	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)

		cord		
12	2= Theory 2= Practical	The Circulatory System & Capillaries AV anastomosis, arteries, Veins & lymph vessels	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
13	2= Theory 2= Practical	Blood vessels and Arteries, Elastic Artery, Muscular arteries, medium artery, Arterioles, veins,	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
14	2= Theory 2= Practical	Lymph Nodes & Tonsils, Thymus. Spleen.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
15	2= Theory 2= Practical	Female reproductive system	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)

11. Course Evaluation	
1. Short exams 2. Theoretical mid-term exam 3. Theoretical final exam 4. Seminars.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Junqueira LC & Carnerio J (2013) : Basic Histology; Text & Atlas. 11th ed.
Main references (sources)	McGraw-Hill Medical. New York. Victor P. Eroschenko (2008): Difiore's atlas of histology v functional correlation.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Computer Science	
2. Course Code:	
3. Semester / Year:	
1st semester / 2nd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
Second stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
45	
7. Course administrator's name (mention all, if more than one name)	
8. Course Objectives	
Course Objectives	**•Utilize the computer for fundamental tasks.** **•identify and discuss the hardware components of the computer system.** **•Creating documents using a word processor and creating presentations.**
9. Teaching and Learning Strategies	
Strategy	1-Theoretical Lectures 2- Practical Labs
10. Course Structure	

Week	Hours	Unit name/topic	Required learning outcomes	Teaching Method	Assessment Method
1	1	Security and Networking	What is a network? Types of networks. Basic network components.	**5- Theoretical Lectures** **6- Practical Labs** **The course will use the following teaching and learning methods:** • Board (Normal or Smart) • Computers • Presentation software such as PowerPoint	• MCQ • Essay questions • Assessment of the experimental application on the Lab
2	1	Security and Networking (Cont.)	Basic network components.		
3	1	Security and Networking (Cont.)	Network Security Basics Understanding network threats. Network Troubleshooting		
4	1	Security and Networking (Cont.)	Introduction to Network Troubleshooting, Common Network issues and Symptoms, Network Troubleshooting Tools and Utilities.		
5	1	Security and Networking (Cont.)	Using Command-Line Tools for Diagnostics, Identifying and Resolving Connectivity Issues, Diagnosing Network Performance Problems		
6	1	E-commerce	Concepts of Electronic banking services this include online banking: ATM and debit card services.		
7	1	E-Commerce (Cont.)	Phone banking, SMS banking, electronic alert, Mobile banking		

8	1	Computer Troubleshooting	Introduction to Computer Troubleshooting, Common Hardware Issues and Solutions, Diagnosing Software Problems.		
9	1	Computer Troubleshooting (Cont.)	Hardware Components: Diagnosis and Repair, Using Safe Mode for Troubleshooting.	**1-Theoretical Lectures** **2- Practical Labs** **The course will use the following teaching and learning methods:** • Board (Normal or Smart) • Computers • Presentation software such as PowerPoint	• MCQ • Essay questions • Assessment of the experimental application on the Lab
10	1	Computer Troubleshooting (Cont.)	Troubleshooting Operating System Issues, identifying and Resolving Blue Screen Errors, Dealing with Slow Computer Performance.		
11	1	Computer Troubleshooting (Cont.)	Virus and Malware Removal Techniques, Updating Drivers and Software.		
12	1	Introduction to AI	Definition of AI, History of AI, AI Techniques and Approaches.		
13	1	Introduction to AI (Cont.)	Key Characteristics of AI, Benefits of AI, Challenges and Ethical considerations.		
14	1	Introduction to AI (Cont.)	Challenges and Limitations of AI, The Role of Data in AI Systems.		
15	1	Introduction to AI (Cont.)	AI Tools and Frameworks		

11.Course Evaluation
1. Short exams 2. Theoretical mid-term exam 3. Theoretical final exam 4. Seminars.

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

2nd year / 2nd semester

Course Description Form

1. Course Name:
Medical physiology
2. Course Code:
PHYPhy-22
3. Semester / Year:
2nd semester / 2nd year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
Second stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
105
7. Course administrator's name (mention all, if more than one name)

8. Course Objectives	
Course Objectives	**he objective of second–stage medical physiology coursework is to provide students a thorough grasp of how the human body works in normal circumstances, with a special emphasis on the subjects you highlighted. Students who possess this information will b better equipped to diagnose, treat, and manage a wide range of illnesses and conditions the future**

9. Teaching and Learning Strategies	
Strategy	1-Theoretical Lectures 2- Practical Labs

10. Course Structure

Week	Hours	Unit name/topic	Required learning outcomes	Teaching Method	Assessment Method
1	Theory4	**Central Nervous System**	- Introduction of Nervous System. - C.N.S Inhibition. - Sensory Functions of The CNS. - Classification of Nerve Fibers. - Central Inhibition Of Pain.	Theoretical lectures	short essay Quizzes
2	Theory4		- The Somatosensory System. - Higher Interpretation of Sensory Signals. - Higher Levels of Integration. - Control of The Brain Stem and Spinal Cord Reflexes. - Motor Cortex.	Theoretical lectures	short essay Quizzes
3	Theory4		- Extra-Pyramidal System - Control of The Brain Stem and Spinal Cord Reflexes. - Language Learning & Memory.	Theoretical lectures	short essay
4	Theory4	**Physiology Of Special Senses**	- Visual Sensation. - Hearing Sensation. - Vestibular Function. - Taste & Smell.	Theoretical lectures	Quizzes short essay
5	Theory4	**Gastrointestinal Tract - Digestive System (G.I.T)**	- Anatomy, Structure & Function of G.I.T. - GIT Smooth Muscle Contractions &The Enteric Nervous System. - Salivary Glands.	Theoretical lectures	Quizzes short essay
6	Theory4		- Stomach Function & Regulation. - Phases of Gastric Secretion, Inhibition of Gastric Secretion. - Small Intestine. - Pancreas & Gall Bladder.	Theoretical lectures	Quizzes short essay
7	Theory4		- Digestion. - Absorption. - Large Intestine. - Liver.	Theoretical lectures	Quizzes short essay

8	Theory4	**Endocrinology**	- Introduction Endocrine. - Peptide &Steroid Hormone (Production, Secretion, Mechanism of Hormones Action. - Hypothalamic hormones. - Anterior Pituitary Gland Hormones.	Theoretical lectures	Quizzes short essay
9	Theory4		- Posterior Pituitary Gland Hormones. - Growth Hormones. - Thyroid Gland &Hormones	Theoretical lectures	Quizzes short essay
10	Theory4		- Pancreas Part. - Diabetes Mellitus.	Theoretical lectures	Quizzes short essay
11	Theory4		- Metabolic Syndrome. - Hypoglycemia. - Adrenal Gland. Medulla. - Adrenal Gland Cortex.	Theoretical lectures	Quizzes short essay
12	Theory4	**Reproductive system**	- Male Reproductive Physiology. - Female Reproductive Physiology. - Physiology Of Pregnancy	Theoretical lectures	Quizzes short essay
13	Theory4	**Renal Physiology**	- Renal Circulation and Glomerular Filtration. - Tubular Reabsorption. - Tubular Secretion - Water Excretion By The Kidneys.	Theoretical lectures	Quizzes short essay
14	Theory4		- Role of The Kidneys in Electrolytes Balance. - The Regulation of pH. - Regulation of Body Fluid Volume. - Renal Disease And Dieresis.	Theoretical lectures	Quizzes short essay
15	Theory4		- Function Test - Overview & Discussion.	Theoretical lectures	Quizzes short essay

11. Course Evaluation

1. Short exams
2. Theoretical mid-term exam
3. Theoretical final exam

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

1. Course Name:	
Biochemistry	
2. Course Code:	
CHMBio-21	
3. Semester / Year:	
2nd semester / 2nd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
Second stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
90	
7. Course administrator's name (mention all, if more than one name)	
Name:Dr.Mustafa Saleam Dr.Abdullah Ali Dr.Mohamed Amer Dr.Ayad abod Email: mustafa.saleam@uofallujah.edu.iq	
8. Course Objectives	
Course Objectives	***Introduce the importance of metabolic reactions within the cells of the human body** ***The metabolic reactions relationship to various diseases for medical students**
9. Teaching and Learning Strategies	
Strategy	Teaching Strategies include theoretical lectures, discussions, practical part and conducting experiments. Evaluation is based on the grades of the theoretical and practical exam and short exams
10. Course Structure	

Weeks	Hours	Unit name/topic	Required learning outcomes	Teaching method	Evaluation method
1	٣ h theory +٣ h practical	**Lipid Metabolism:** **1.** General Introduction, **2.** Digestion And **3.** Absorption.	-Definition of the basic principles of life metabolism -Definition of water-soluble vitamins and their metabolism	Theoretical lectures	Summative and formative assessment
2	3 h theory + h practical	**4.** B-Oxidation And Fatty Acid Biosynthesis, **5.** Triglycerides Synthesis And Degradation. **6.** Lipoprotein Metabolism	- Definition of fat-soluble vitamins and their metabolism -Identification of important minerals in the body, their function and metabolic disorders	Theoretical lectures	Summative and formative assessment
3	3 h theory +3 h practical	Phospholipid Metabolism, Ketogenesis And Ketoacidosis. Cholesterol Metabolism	-Identify important minerals in the body, their function and metabolic disorders -Identify glands and hormone composition	Theoretical lectures	Summative and formative assessment
4	3h theory +3 h practical	Bile Acid Metabolism And Gallstones **Protein & Amino Acid Metabolism:** General Introduction, Digestion	-Learn the details of hormones and glands in terms of classification, work and physiological function.	Theoretical lectures	Summative and formative assessment
5	3 h theory +3 h practical	Absorption. **7.** Protein Synthesis And Catabolism, Amino Acid Metabolism (Anabolism And Catabolism)	Knowing the classification of hormones according to the nature of their composition and functions. -The role of reproductive hormones in both sexes.	Theoretical lectures	Summative and formative assessment

			-What are the types of hormonal disorders؟		
٦	3 h theory +3 h practical	**8.** Transamination, **9.** Deamination, **10.** Trans-Deamination,	-Learn about the structure and function of sugars and the steps of their digestion and absorption in the body. -Learn about the process of building and decomposing glucose and glycogen. -Learn about the importance of sugar metabolism and the importance of the citric acid cycle.	Theoretical lectures	Summative and formative assessment
7	3 h theory +3 h practical	Central Role Of Glutamate, Sources And Fate Of Ammonia Catabolism Of Phenylalanine,	-Identify the steps of sugar oxidation and phosphorylation. -Identify the condition of sugar metabolism disorder in the body and what diseases arise from it. -Diabetes	Theoretical lectures	Summative and formative assessment
8	3 h theory +3 h practical	**1.** Tyrosine, Methionine, Cysteine, Serine, Glycine…… **2.** Urea Cycle, Inborn Errors Of Amino Acids. Discussion	-Identify diseases and disorders and know the causes of the disorder.	Theoretical lectures	Summative and formative assessment
9	3 h theory +3 h practical	**1.** Chemistry Of Neurotransmitters, **2.** Porphyrins Metabolism And Porphyria. -	-Identify diseases and disorders and know the causes of the disorder.	Theoretical lectures	Summative and formative assessment
10	3 h theory +3 h practical	**<u>Nucleic Acid Metabolism:</u>** **1.** Digestion And Absorption, **2.** Nucleic Acid	-Identify diseases and disorders and know the causes of the disorder.	Theoretical lectures	Summative and formative assessment

		Synthesis Metabolism of Purine and Pyrimidine (Synthesis And Degradation			
11	3 h theory +3 h practical	Hyperuricemia And Gout, Clinical Enzymology Clinical Enzymology	-Identify diseases and disorders and know the causes of the disorder.	Theoretical lectures	Summative and formative assessment
12	3 h theory +3 h practical	**1.** Liver Function Test Renal Function Test	-Identify diseases and disorders and know the causes of the disorder.	Theoretical lectures	Summative and formative assessment
13	3 h theory +3 h practical	**Molecular Biology** **1.** DNA & RNA **2.** Flow Of Genetic Information Exploring Genes (Recombinant Dna Technology**)**	-Identify diseases and disorders and know the causes of the disorder.	Theoretical lectures	Summative and formative assessment
14	3 h theory +3 h practical	**1.** DNA Replication & Repair **2.** Gene Re-Arrangement Protein Synthesis	-Identify diseases and disorders and know the causes of the disorder.	Theoretical lectures	Summative and formative assessment
15	3 h theory +3 h practical	-Glycogen Storage Disease, Lactic Acidosis -Overview And Discussion	-Identify diseases and disorders and know the causes of the disorder.	Theoretical lectures	Summative and formative assessment

11.Course Evaluation	
Theoretical lectures, discussion hours and practical experiments	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1.Lippincott's Biochemistry
Main references (sources)	2.Murray RK, Bender DA, Botham KM , Kennelly PJ, Rodwell , & Anthony Weil P (2009) : Harper's Illustrated Biochemistry, by The McGraw-Hill Companies, Inc.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Embryology
2. Course Code:
ANTEmb-21
3. Semester / Year:
2nd semester / 2nd year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
Second stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
30
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**Typically focus on providing a detailed understanding of the development of specific org systems and their structural and functional relationships within the embryo include:** **1- Development of the skeletal system.** **2- Development of the muscular system.** **3- Development of the circulatory system.**

9. Teaching and Learning Strategies	
Strategy	To provide foundational knowledge and theoretical understanding. Methods: Traditional lectures with PowerPoint presentations or whiteboard. Use of multimedia tools (videos, animations) to illustrate dynamic processes fertilization, gastrulation, and organogenesis.

10. Course Structure

Weeks	Hours	Subjects	Teaching methods	Assessment
1	2= Theory	**The skeletal system**	lectures ,tutorials and laboratory sessions	Quizzes (theory)
2	2= Theory	**Pharyngeal arches**	lectures ,tutorials and laboratory sessions	Quizzes (theory)
3	2= Theory	**The nervous system**	lectures ,tutorials and laboratory sessions	Quizzes (theory)
4	2= Theory	**The eye**	lectures ,tutorials and laboratory sessions	Quizzes (theory)
5	2= Theory	**The ear**	lectures ,tutorials and laboratory sessions	Quizzes (theory)
6	2= Theory	**The heart**	lectures ,tutorials and laboratory sessions	Quizzes (theory)
7	2= Theory	**Mid-term**	lectures ,tutorials and	Quizzes (theory)

		examination	laboratory sessions	
8	2= Theory	**The integumentary system**	lectures ,tutorials and laboratory sessions	Quizzes (theory)
9	2= Theory	**The gut tube.**	lectures ,tutorials and laboratory sessions	Quizzes (theory)
10	2= Theory	**Derivatives of the gut tube**	lectures ,tutorials and laboratory sessions	Quizzes (theory)
11	2= Theory	**The respiratory system**	lectures ,tutorials and laboratory sessions	Quizzes (theory)
12	2= Theory	**The renal system**	lectures ,tutorials and laboratory sessions	Quizzes (theory)
13	2= Theory	**The renal system**	lectures ,tutorials and laboratory sessions	Quizzes (theory)
14	2= Theory	**The internal genital organs**	lectures ,tutorials and laboratory sessions	Quizzes (theory)
15	2= Theory	**The external genital organs**	lectures ,tutorials and laboratory sessions	Quizzes (theory)

11.Course Evaluation	
Theoretical lectures, discussion hours and practical experiments	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	**Sadler TW (2000): Langman's medical embryology. 1 Ed.William & Wilkins. Philadelphia.**
Main references (sources)	**LARSEN'S HUMAN EMBRYOLOGY** **High-Yield Embryology-Lippincott Williams & Wilkin**
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Anatomy	
2. Course Code:	
ANTAnt-22	
3. Semester / Year:	
2nd semester / 2nd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
Second stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
135	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**1- detailed knowledge about the human body's structure, including organs, tissues, and systems, and their interrelationships.** **2- Describe the anatomy of the thoracic cage, pelvis, head and neck, and abdomen.** **3- Direct students towards the importance of anatomy in clinical practice.**
9. Teaching and Learning Strategies	
Strategy	Purpose: Provide foundational knowledge and explain complex concepts. Methods:Use PowerPoint presentations with diagrams, images, and animations. Incorporate clinical correlations to make the material relevant. Encourage interactive discussions and Q&A sessions.
10. Course Structure	

Weeks	**Hours**	**Outcome**	**Subjects**	**Teaching method**	**assessment**
1	3=theoretical 6=practical	Anatomy of the nervous system	Gross anatomy of the brain	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
2	3=theoretical 6=practical	Anatomy of the nervous system	Localization of functions in the cerebral cortex	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports

3	3=theoretical 6=practical	Anatomy of the nervous system	Blood supplies the brain. Meninges and circulation of cerebrospinal fluid and spinal cord	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
4	3=theoretical 6=practical	Anatomy of the nervous system	Cranial nerves	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
5	3=theoretical 6=practical	Anatomy of the nervous system	Limbic system. Cerebellum. Diencephalon	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
6	3=theoretical 6=practical	Anatomy of the nervous system	Basal ganglia. Spinal cord	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
7	3=theoretical 6=practical	Head and neck anatomy	Superficial anatomy, parts, and fascia of the neck. Triangles of the neck	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
8	3=theoretical 6=practical	Head and neck anatomy	Blood vessels of the neck. Thyroid and parathyroid glands. Neck viscera. Prevertebral and suboccipital areas	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports

9	3=theoretical 6=practical	Head and neck anatomy	Neck root. Scalp and facial muscles. Nerves and blood vessels of the face	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
10	3=theoretical 6=practical	Head and neck anatomy	Parotid region. Infratemporal fossa: muscles, blood vessels, nerves	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
11	3=theoretical 6=practical	Head and neck anatomy	Pteropalatine fossa. Temporomandibular joints. Mouth and throat. Submandibular region	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
12	3=theoretical 6=practical	Head and neck anatomy	Ear, orbit and eyeball	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
13	3=theoretical 6=practical	Head and neck anatomy	Nose and sinuses. Pharynx	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
14	3=theoretical 6=practical	Head and neck anatomy	Larynx. Lymphatic drainage of the head and neck.	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports
15	3=theoretical 6=practical	Head and neck anatomy	Sectional anatomy of the head and neck	Theoretical lectures and practical labs	Theoretical and practical exams, discussion sessions and reports

11.Course Evaluation	
Theoretical lectures, discussion hours and practical experiments	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Moore KL & Dalley AF (2006): Clinically Orier Anatomy. 5th Ed. Lippincott Williams & Wilk Philadelphia
Main references (sources)	- Snell RS (2011): Clinical anatomy by regions. 9th Ed. Williams & Wilkins. Philadelphia - Abrahams P: McMinn's interactive clinical anatomy (CD) - Jaffar A & Al-Salihi A (2000): Selected topics in anato (CD). Al-Nahrain University publication.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Histology	
2. Course Code:	
ANTHis-21	
3. Semester / Year:	
2nd semester / 2nd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
Second stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
60	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**1.Understand the basic principles of tissue preparation and staining techniques used in histology.** **2.Identify and differentiate between the four basic types of tissues: epithelial, connective muscular, and nervous.** **3.Recognize the histological features of various organs and understand their functional significance.**
9. Teaching and Learning Strategies	
Strategy	a.Delivered in person or online, covering theoretical concepts of histology, including tissue types, organ systems, and staining techniques.

	b.Use of visual aids such as diagrams, photomicrographs, and animations to enha understanding.

10. Course Structure

Weeks	Hours	Subjects	Teaching methods	Assessment
1	2= Theory 2= Practical	Digestive Tract	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
2	2= Theory 2= Practical	Stomach and Small intestine. Large intestine & appendix	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
3	2= Theory 2= Practical	Organs associated with the digestive tract; . Pancreas. Liver, gall bladder and biliary tract.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
4	2= Theory 2= Practical	Respiratory System	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
5	2= Theory 2= Practical	The Lung.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
6	2= Theory 2= Practical	Urinary System I	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
7	2= Theory 2= Practical	Urinary system II.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
8	2= Theory 2= Practical	Mid-term Examination (Theory). Endocrine glands ; Pituitary gland.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
9	2= Theory 2= Practical	Suprarenal glands, thyroid, and parathyroid glands. Pineal , Endocrine , Pancreases glands.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)

10	2= Theory 2= Practical	The Male Reproductive System. Prostate & Urethra.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
11	2= Theory 2= Practical	The Male Reproductive System; Accessory genital glands. -The Female Reproductive System; Ovaries & oviducts	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
12	2= Theory 2= Practical	Uterine stages & vagina.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
13	2= Theory 2= Practical	Mammary glands. Organs of Special Senses; Eye I.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
14	2= Theory 2= Practical	Organs of Special Senses; Ear II.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
15	2 = Theory 2= Practical	Overview.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)

11.Course Evaluation	
Theoretical lectures, discussion hours and practical experiments	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Lectures BASIC HISTOLOGY (11th. ed)
Main references (sources)	Lab microscopic teaching talks
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Computer Science
2. Course Code:
3. Semester / Year:
2nd semester / 2nd year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
Second stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
45
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**•Utilize the computer for fundamental tasks.** **•identify and discuss the hardware components of the computer system.** **•Creating documents using a word processor and creating presentations.** **•Conducting research on the internet.**

9. Teaching and Learning Strategies	
Strategy	1-Theoretical Lectures 2- Practical Labs

10. Course Structure

Week	Hours	Unit name/topic	Required learning outcomes	Teaching Method	Assessment Method
1	1	The Role of AI in Modern Smartphones	AI-Driven Mobile Technologies, Virtual Assistants (Siri, Google Assistant, Alexa).	**1-Theoretical Lectures** **2-Practical Labs** **The course will use the following teaching and learning methods:** • Board (Normal or Smart) • Computers • Presentation software such as PowerPoint	• MCQ • Essay questions • Assessment of the experimental application on the Lab
2	1	The Role of AI in Modern Smartphones (Cont.)	Adaptive Learning, Real-Time Translation Services.		
3	1	The Role of AI in Modern Smartphones (Cont.)	The Future of AI in Smartphone Technology, Challenges of implementing AI in Mobile Devices.		
4	1	Applications and Tools of AI	Overview of AI Applications in Various industries, Education and Healthcare.		
5	1	Applications and Tools of AI (Cont.)	Transportation and Advertising.		
6	1	Applications and Tools of AI (Cont.)	Finance, Robotics and Automation Technologies.		
7	1	Applications and Tools of AI (Cont.)	AI in Marketing: Targeting and Personalization.		
8	1	Applications and Tools of AI (Cont.)	AI in image and Video Analysis, Smart Cities		
9	1	Applications and Tools of AI (Cont.)	Future Trends in AI Applications and Tools.		
10	1	AI and Society	Introduction to Al and Its Societal Impact, The Role of Al in Enhancing Public Safety.		
11	1	AI and Society (Cont.)	Cultural Perspectives on AI Adoption, AI and Governance: Policy implications.		
12	1	Ethical Challenges	Introduction to		

		in AI	Ethics in AI, Transparency and Explain ability of AI Systems, Privacy Concerns in AI Data Usage.		
13	1	Ethical Challenges in AI (Cont.)	The Ethical Implications of Autonomous Systems, Ethics in AI-Driven Marketing and Advertising.	**1-Theoretical Lectures** **2-Practical Labs** **The course will use the following teaching and learning methods:** • Board (Normal or Smart) • Computers Presentation software such as PowerPoint	• MCQ • Essay questions Assessment of the experimental application on the Lab
14	1	Ethical Challenges in AI (Cont.)	Ethical Considerations in Education, Human Rights and AI Implementation.		
15	1	The Future of AI	Future trends in Al, recent research and emerging technologies.		

11.Course Evaluation	
Theoretical lectures, discussion hours and practical experiments	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

3rd year / First semester

Course Description Form

1. Course Name:	
Surgery	
2. Course Code:	
Sur-11	
3. Semester / Year:	
1st semester / 3rd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
3rd stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
15	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**The course describes the basic knowledges of surgical principles to the medical student build the clinical knowledge and clinical skills in the next years in diagnosis and treatme of the different diseases including the emergent conditions, in a way to participate in optimizing the medical services to the society**
9. Teaching and Learning Strategies	
Strategy	This course is given as one lecture per week for 1 hour each. The lectures are interact and composed of PowerPoint presentations, images, and videos to illustrate conce and procedures. Case-based learning with pre- and post-questions. Online resour such as online meetings, social media groups and e-books can supplement traditio lectures and provide additional opportunities for learning as well as various stud tasks to implement self-directed learning.
10. Course Structure	

Week	hours	Unit name/topic	Required learning outcomes	Teaching Method	Assessment Method
1	1	**Introduction and history**	Read of scope of modern surgery, outline development milestones of surgery and development of aseptic and anti-septic surgery		

2	1	**Wound and repair**	I. Wound: definitions, types, classifications, clinical features and management. II. Scars: definitions, types, Tissue repair: definitions, pathophysiology of wound and factors affect wound healing.		
3	1	**Wound Infections**	I. Explain the pathophysiology of wound infections and the host immune response. II. Recognize the types of wound infections (abscess, cellulitis, etc.) and their clinical manifestations. Outline appropriate management strategies for each type of wound infection.		
4	1	**Specific Infections**	I. Describe the key infections encountered in surgical practice (e.g., tetanus, gas gangrene). II. Discuss each infection's pathophysiology, clinical features, and diagnostic approaches. Identify treatment protocols and preventive measures for each infection.		
5	1	**Fluid and Electrolyte Balance**	I. Recall the distribution of body fluids and principles of volume regulation. Recognize causes, clinical signs, and treatment approaches for electrolyte imbalances.		
6	1	**Acid–Base Balance**	I. Define acid-base balance and buffering systems. II. Differentiate between		

			acidosis and alkalosis and their clinical effects. Identify various acid-base disorders and explain their management, including the concept of the anion gap.		
7	1	**Surgical Nutrition and Metabolism**	I. List the components of adequate nutrition for surgical patients. II. Understand the indications, types, and potential complications of enteral and parenteral nutrition. Assess the nutritional status of surgical patients and identify nutritional needs.		
8	1	**Shock**	Classifications and grading of shock. Causes and clinical features of every type of shock outline management and monitoring procedures and methods of resuscitation.		
9	1	**Hemorrhage and blood transfusion**	List different type of hemorrhage, signs and symptoms of blood loss, assessment and management of degree of acute bleeding. Outline the indication of blood transfusion, various types of blood and blood products and their transfusion complications		
10	1	**Tumors**	I. Define tumors, explain their classifications, and distinguish between benign and malignant types. II. Understand the principles of tumor grading, staging,		

			and pathways of metastasis. Outline diagnostic, screening, and treatment methods for tumors.		
11	1	**Ulcers, Sinuses, and Fistulae**	I. Define ulcers, sinuses, and fistulae and describe their clinical features and classification. Explain the diagnostic approaches and management options for each condition.		
12	1	**Diabetic Foot and Gangrene**	I. Identify risk factors, pathophysiology, and clinical features of diabetic foot and gangrene. Describe the diagnostic methods, classification, and management strategies for these conditions.		
13	1	**Diseases of the Lymphatic System**	Describe common diseases of the lymphatic system, including clinical features, diagnostic tools, and treatment.		
14	1	**Burns, Skin Grafts, and Implants** **Skin Tumors and Cysts**	I. Classify burn types and explain their treatment. II. Understand the indications, techniques, and complications of skin grafts and implants. Define common skin tumors and cysts, recognize clinical presentations, and describe diagnostic and treatment options.		
15	1	**Principles of Organ Transplantation**	Outline the basic principles, indications, and considerations in organ transplantation		

11.Course Evaluation	
Theoretical lectures, discussion hours and practical experiments	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	•Bailey & Love's Short Practice of Surgery (Esser reference for surgical principles and procedures).
Main references (sources)	Lecture slides, case studies, clinical guidelines, and vi demonstrations. Online resources, including e-books and interac medical platforms.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Internal Medicine	
2. Course Code:	
Med-10	
3. Semester / Year:	
1st semester / 3rd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
3rd stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
30	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**By the end of the rotation, students should be able to:** **1.Conduct a thorough patient evaluation, including history-taking.** **2.Formulate differential diagnoses and develop initial diagnostic and treatment plans.** **3.Interpret common laboratory and imaging tests, including interpretation of ABG, Electrolyte disorders, & general approach to common clinical manifestations .**
9. Teaching and Learning Strategies	
Strategy	Lectures guided by proper PPT presentation & wards.
10. Course Structure	

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method

1	2 hours	1. Introduction to Medicine. 2. Chest Pain	Lecture presentation Homework cases	Assay questions MCQ EMQ
2	2 hours	3. Nutrition. 4. Obesity & Undernutrition.	Lecture presentation Homework cases	Assay questions MCQ EMQ
3	2 hours	5. Palpitation. 6. Oedema.	Lecture presentation Homework cases	Assay questions MCQ EMQ
4	2 hours	7. Vitamin Deficiency. 8. Mineral Deficiency.	Lecture presentation Homework cases	Assay questions MCQ EMQ
5	2 hours	9. Shortness of breath. 10. Cough.	Lecture presentation Homework cases	Assay questions MCQ EMQ
6	2 hours	11. Acid Base Balance. 12. Acid Base Disorders.	Lecture presentation Homework cases	Assay questions MCQ EMQ
7	2 hours	13. Cyanosis. 14. Haemoptysis.	Lecture presentation Homework cases	Assay questions MCQ EMQ
8	2 hours	Midterm Exam	Lecture presentation Homework cases	Assay questions MCQ EMQ
9	2 hours	15.Electrolyte disorders 16. Electrolyte disorders	Lecture presentation Homework cases	Assay questions MCQ EMQ
10	2 hours	17. Abdominal pain 18. Diarrhoea.	Lecture presentation Homework cases	Assay questions MCQ EMQ
11	2 hours	19. Lipid disorders 20. Lipid Disorders.	Lecture presentation Homework cases	Assay questions MCQ EMQ

12	2 hours	21. Constipation 22. Jaundice-1	Lecture presentation Homework cases	Assay questions MCQ EMQ
13	2 hours	23. Jaundice-2 24. Hematemesis.	Lecture presentation Homework cases	Assay questions MCQ EMQ
14	2 hours	25. Case Based Discussion. 26.Case Based Discussion.	Lecture presentation Homework cases	Assay questions MCQ EMQ
15	2 hours	27. Review. 28. Review.	Lecture presentation Homework cases	Assay questions MCQ EMQ

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

1. Course Name:
Clinical training
2. Course Code:
Med-11
3. Semester / Year:
1st semester / 3rd year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
3rd stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
30
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	* **Learn systematic and comprehensive history-taking techniques** • **Develop effective communication and active listening skills** • **Understand how to ask relevant questions based on patient complaints** • **Identify red flags and prioritize differential diagnoses**

9. Teaching and Learning Strategies	
Strategy	Taking with patients and their relatives

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1st	2	**Patient Identification (Demographics)** • Name • Age • Gender • Occupation • Marital status • Address & Contact Information	Real Patient interview	Case Discussion
2nd	2	**Chief Complaint (CC)** • The **main reason** the patient is seeking medical attention. • Recorded in the **patient's own words** (e.g., "I have chest pain for two days").	Real Patient interview	Case Discussion

3rd	2	**History of Present Illness (HPI)** • A **detailed exploration** of the chief complaint using **SOCRATES or OPQRST** for symptom analysis.	Real Patient interview	Case Discussion
4th	2	Review of Different clinical scenario	Real Patient interview	Case Discussion
5th	2	Review of Different clinical scenario	Real Patient interview	Case Discussion
6th	2	**Past Medical History (PMH)** • **Chronic illnesses** (e.g., diabetes, hypertension, asthma) • **Previous hospitalizations and surgeries** • **Infectious diseases** (e.g., tuberculosis, hepatitis) • **Allergies** (drug, food, environmental) • **Immunization status** • **Medications currently taking** (prescribed, OTC, herbal)	Real Patient interview	Case Discussion
7th	2	**Family History (FH)** • **Hereditary conditions** (e.g., hypertension, diabetes, cancer) • Any **early deaths** in the family • Conditions affecting **first-degree relatives** (parents, siblings)	Real Patient interview	Case Discussion
8th	2	**Social History (SH)** • **Smoking history** (pack-years = packs/day × years) • **Alcohol use** (type, frequency, quantity) • **Illicit drug use** • **Diet and exercise habits** • **Occupational exposure to hazards** • **Living conditions & support system**	Real Patient interview	Case Discussion
9th	2	**Review of Systems (ROS)** A **systematic screening** for symptoms affecting different body systems.	Real Patient interview	Case Discussion
10th	2	• Practicing history-taking on real patients.	Real Patient interview	Case Discussion
11th	2	• Practicing history-taking on real patients	Real Patient interview	Case Discussion

12th	2	• Practicing history-taking on real patients.	Real Patient interview	Case Discussion
13th	2	• Practicing history-taking on real patients.	Real Patient interview	Case Discussion
14th	2	• Practicing history-taking on real patients.	Real Patient interview	Case Discussion
15th	2	• Practicing history-taking on real patients.	Real Patient interview	Case Discussion

11.Course Evaluation	
Case study	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Macleod's clinical examination
Main references (sources)	workshop
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Pathology	
2. Course Code:	
PATpat−31	
3. Semester / Year:	
1st semester / 3rd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
3rd stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
120	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**Develop the student's knowledge, skill, and attitude related to pathogenesis, morphologi (microscopic and macroscopic pictures) and clinical manifestations of basic pathological processes and specific diseases at the molecular, cellular, tissue, organs, and whole bo level.**
9. Teaching and Learning Strategies	
Strategy	1. lustrate microscopic data of different pathological lesions. 2-Differentiate between different diagnoses to arrive at a preferred or definite diagno
10. Course Structure	

Week	Hours	Required learning outcomes	Unit name/topic	Teaching method	Evaluation method
1	4 hours theoretical + ٤ hours practical weekly	Introduction to pathology.	Pathology	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture + writing a report on

					the results of the work
2	4hr. +٤hr labs	**Cell injury, cellular adaptation and cell death**	//	//	//
٣	٤hr.+ ٤labs	**Acute &chronic inflammation**	//	//	//
٤	٤hr.+٤hr. labs	**Tissue renewal & repair, regeneration, healing & fibrosis**	//	//	//
5	**٤hr.+٤hr. labs**	**Hemodynamic disorders, thromboembolism diseases & shock**	//	//	//
6	٤hr.+ ٤hr. labs	**Genetic disorders**	//	//	//
7	٤hr + ٤hr.labs	**Diseases of immunity**	//	//	//
8	٤hr. + 4hr.labs	**Neoplasia**	//	//	//
9	٤hr + 4hr labs	**Infectious diseases**	//	//	//
10	4hr +٤hr. labs	**Environmental &Nutritional pathology**	//	//	//
11	**4hr.+ ٤hr.labs**	**Diseases of infancy & childhood**	//	//	//
12	٤hr. +٤ hr. labs	**Cardiovascular system**	//	//	//

١٤+١٣	٨hr.+ ٨hr.labs	**Hematopoietic and Lymphoid Systems**	//	//	//
1٥	4hr + ٤hr.labs	**Respiratory system**	//	//	//

11.Course Evaluation	
Midterm and final exams. • Quizzes during lectures and laboratory sessions. • Short-answer questions during lectures. • Group discussions. • Practical exams and lab experiments. • Seminars.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	M1. Robbins basic pathology 10th ed
Main references (sources)	Text book of pathology By Muir's
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Pharmacology
2. Course Code:
Phar–5
3. Semester / Year:
1st semester / 3rd year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
3rd stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
75
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**–To introduce students to the core principles of drug action in terms of bioavailability, pharmacokinetics, pharmacodynamics and mechanism of action of drugs in the treatment of diseases.** **–To introduce students to critically assess drug efficacy, side effects, toxicities,** **–drug interactions and special emphasis on dosage concerns in special populations suc the young, pregnant women and in the elderly.**

9. Teaching and Learning Strategies	
Strategy	Use modern teaching aids such as PowerPoint presentations, animations, a whiteboards for clarification. Practical applications of laboratory diagnostics. .

10. Course Structure

Week	Hours	Required learning outcomes	Lecturer name/Unit name/topic	Teaching method	Evaluation method
1	3 hours theoretical + 2 hours practical weekly	**- Introduction to pharmacology.** **- Pharmacokinetic.** **- Pharmacodynamics**	Pharmacology/	Theoretical lectures using projectors and smart board + practical experiments and skills, PPT presentation.	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture + writing a report on the results
2		**- Introduction to Autonomic N.S.** **- Autonomic N.S.** **- cholinergic agonists I**			
3		**-Cholinergic agonists** **-Cholinergic antagonists** **- Adrenergic**			

		agonists			of the work. + - Short exams. -Half course. - End of course.
4		**-Adrenergic antagonists - muscle relaxants - anti-hypertensive drugs I + Beta blockers.**			
5		**-antihypertensive drugs II. -drugs for cardiac arrhythmia I. -drugs for cardiac arrhythmia II.**			
6		**- Drugs for cardiac failure I. -Drugs for cardiac failure II. -drugs for Ischemic Heart disease.**			
7		**-Diuretic Drugs I. -Diuretic Drugs II. - Anti-hyperlipidemia drugs.**			
8		**-Histamine and antihistamines I. -Histamine and antihistamine II. - serotonin and anti-serotonin.**			
9		**Mid. Exam.**	**Mid. exam**		
10		**-Adreno-corticosteroids (corticosteroids and antagonists). - parathyroid hormones and drugs affecting. calcium balance. - dugs acting on uterus.**			
11		**- Drugs treatment for infertility and erectile dysfunction. - anti- epileptics. - anti-Parkinson's drugs.**			
12		**- Antipsychotics. - Local anesthetics. - general anesthetics.**			

13		-**GIT: anti-muscarinic drugs and drugs acting on intestinal motility.** **-anti emetics drugs regulating appetite, drugs.** **-drugs regulating stomach secretion, antiulcer drugs**.			
14		-**drugs acting on respiratory system.** **- mast cell stabilizer / anti IGE antibodies.** **-respiratory stimulants.** **- pulmonary surfactant, expectorant. -miscellaneous**.			
15		**- drugs for anemia.** **- anti- platelets, thrombolytic & anticoagulant drugs.** **- Drugs used in obesity and osteoporosis**..			

11.Course Evaluation

Midterm and final exams.

- Quizzes during lectures and laboratory sessions.
- Short-answer questions during lectures.
- Group discussions.
- Practical exams and lab experiments.
- Seminars.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	M1. Robbins basic pathology 10th ed Whalen Pharmacology (Lippincott® Illustrated Revie Pharmacology), 7th ed. (2019). Lippincott's B Pharmacology.
Main references (sources)	Bertram G. Katzung, Todd W., Basic & Clin Pharmacology, 15th ed. (2020).
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Immunity	
2. Course Code:	
Immun.-13	
3. Semester / Year:	
1st semester / 3rd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
3rd stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
60	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**This course provides a detailed description of the immune system, its cells and components, as well as the types of immunity** **In addition to theoretical and practical laboratory information, the department is keen to provide students with laboratory techniques rela to immunology and related diseases.**
9. Teaching and Learning Strategies	
Strategy	1.Delivering theoretical lectures using available presentation techniques (data show projectors and smart board). 2.Learning the correct scientific methods for collecting clinical samples, conduct practical experiments, and learning laboratory skills to cover the practical side of subject..
10. Course Structure	

Week	Hours	Required learning outcomes	Unit name/topic	Teaching method	Evaluation method
First	2 hours theoretical + 2 hours practical weekly	Introduction to immune system.	Immunology	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture + writing a report on the results of the work
Second	//	Antigen	//	//	//
Third	//	B cell development	//	//	//

Fourth	//	T cell development	//	//	//
Fifth	**//**	**complement cascades and regulation of complement function.**	**//**	**//**	**//**
Sixth	//	Major histocompatability complex (MHC)	//	//	//
Seventh	//	Cytokines and inflammation	//	//	//
Eighth	//	Cytokines and inflammation	//	//	//
Ninth	//	Infection and immunity	//	//	//
Tenth	//	Tumor immunology	//	//	//
Eleventh	**//**	**Hypersensitivity types**	**//**	**//**	**//**
Twelfth	//	Autoimmunity, Inherited Immune Deficiencies and Acquired Immune	//	//	//
Thirteenth	//	Transplantation	//	//	//
Fourteenth	//	Vaccines. Immunotherapy	//	//	//

11. Course Evaluation

1. Theoretical exams (mid-year + end of year).
2. Practical exam: (oral exam, skill exam, practical information exam).
3. Reports.
4. Seminars by students.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Jawetz, Melnick & Adelberg's ; Medi Microbiology.
Main references (sources)	• Cruse JM & Lewis O.E. Atlas of Immunology CRC Press and Springer. • Clinical Immunology and Serology • Microbiology: An Introduction. Brock Biology of Microorganisms.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Bacteriology	
2. Course Code:	
Bacter.-11	
3. Semester / Year:	
1st semester / 3rd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
3rd stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
60	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**Identify the characteristics of cultivable microorganisms and pathogeni microorganisms of medical importance.** **Explain the essential methods of sterilization and infection control.** **Learn about the techniques used in immunological, molecular, and bacterial diagnostics.**
9. Teaching and Learning Strategies	
Strategy	•Use modern teaching aids such as PowerPoint presentations, animations, and whiteboards for clarification. •Practical applications of laboratory diagnostics.
10. Course Structure	

Week	Hours	Required learning outcomes	Unit name/topic	Teaching method	Evaluation method
1	2 hours theoretical + 2 hours practical weekly	Bacterial cell & classification, Growth requirements and culture media.	bacteriology	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture + writing a report on the results of the work
2		Sterilization, Disinfections & Antimicrobial agents	bacteriology		
3		Normal flora and probiotics	bacteriology		
4		Microbial Genetics	bacteriology		
5		Staphylococci	bacteriology		
6		Streptococci and Pneumococci	bacteriology		
7		Neisseria	bacteriology		
8		Mycobacterium	bacteriology		

9		Corynebacterium and Listeria	bacteriology		
10		Enterobacteriaceae 1	bacteriology		
11		Enterobacteriaceae 2	bacteriology		
12		Yersinia, Pasteurela & Francisela,Pseudomonas Acinetobacter, Aeromonas & Plesiomonas	bacteriology		
13		Vibrio, Campylobacters & Helicobacter	bacteriology		
14		Haemophilus , Brucella &Bordetella .Ligeonella	bacteriology		
15		Aerobic Bacilli: Bacillus anthracis & Bacillus cereus	bacteriology		

11.Course Evaluation

- Midterm and final exams.
- Quizzes during lectures and laboratory sessions.
- Short-answer questions during lectures.
- Group discussions.
- Practical exams and lab experiments.
- Seminars.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Medical Microbiology by Jawetz Melnick Adelberg's (latest edition)
Main references (sources)	Microbiology: An Introduction Brock Biology of Microorganisms
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Clinical Nutrition and Family Medicine
2. Course Code:
COMCom-32
3. Semester / Year:
1st semester / 3rd year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
3rd stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
30
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**This course provides the student with basic knowledge and skills in community and family medicine/ Biostatistics** **This course provides the student with basic knowledge and skills in community and family medicine**

9. Teaching and Learning Strategies	
Strategy	1.Delivering theoretical lectures using available presentation techniques (data show projectors and smart board). 2.Learning the correct scientific methods for collecting clinical samples, conducting da for scientific research 3.Developing students' skills through mental questions, answers, and special tests in practical session 4.The student is required to write scientific topics related to the use of online researcl 5. E learning and google classroom

10. Course Structure

Week	Hours	Unit name/topic	Teaching method	Evaluation method
Introduction for biostatistics	1			
Presentation of data (mathematical)	2 1	Clinical Biostatistics	Different methods	
Presentation of data (tables)	2		Classic lecture	Quizes
Presentation of data (chart and graph)	1 1		Group discussion	Reports
Analytic biostatistics	1		Seminar	
Estimation	1		Practical sessions	Discussion
Hypothesis	1			
T test	1			Mid term exam
Z test	1			

Chi square Correlation				Final term exam

11.Course Evaluation	
1. Theoretical exams (mid-year + end of year). 2. Practical exam: (oral exam, skill exam, practical information exam). 3. Reports. 4. Seminars by students.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	World Health Organization
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

3rd year / 2nd semester

Course Description Form

1. Course Name:
General Surgery
2. Course Code:
Surg-11
3. Semester / Year:
2nd semester / 3rd year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
3rd stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
15
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**The course describes the basic knowledges of surgical principles to th medical students to build the clinical knowledge and clinical skills in th next years in diagnosis and treatment of the different diseases includin the emergent conditions, in a way to participate in optimizing the medi services to the society**

9. Teaching and Learning Strategies	
Strategy	This course is given as one lecture per week for 1 hour each. The lectures are interact and composed of PowerPoint presentations, images, and videos to illustrate conce and procedures. Case-based learning with pre- and post-questions. Online resour such as online meetings, social media groups and e-books can supplement traditio lectures and provide additional opportunities for learning as well as various stud tasks to implement self-directed learning.

10. Course Structure

Week	Hours	Required learning outcomes	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	• focused on providing students with essential	Varicose Veins	Theoretical lectures using	Oral questions at the end of the theoretical
2	1		DVT		
3	1		Chronic Venous		

		surgical knowledge and practical clinical skills. • Through a series of lectures, students will gain a comprehensive understanding of surgery's historical evolution and modern scope, including critical aseptic and antiseptic practices. The course covers : • Definitions, classification, concept of grading and staging, etiology, pathogenesis and behavior of benign and malignant tumors. List modality of spread of malignant tumors, ways of diagnosis and screening and methods of treatment. • Definitions, classification, causes of each item, outline the clinical features, diagnosis and line of management of Ulcers, sinuses and fistulae. • Etiology including precipitating factors, pathophysiology, clinical features, classification, investigations and management of diabetic foot and gangrene , diseases of lymphatic ,	insufficiency and leg ulceration	projectors and smart board + practical experiments and skills	lecture, and discussion with students about the lecture .
4	1		Lymphatic Disorders		
5	1		Chronic Arterial insufficiency		
6	1		Acute arterial occlusion		
7	1		Gangrene & Amputation		
8	1		Vasospastic disorders		
9	1		Aneurysm & Arteritis		
10	1		Venus injury & Venous tumours		
11	1		Burn		
12	1		Graft and Flap		
13	1		Ulcers , fistula, & sinus		
14	1		Oncology		
15	1		Organ Transplantation		

		diseases of veins and DVT , peripheral arterial disease , burn, skin, graft and implants and principles of transplants.			

11.Course Evaluation	
-Quizzes & Assignments (6%) – Regular short quizzes and assignments test students' grasp of fundamental surgical concepts, ensuring continuous engagement and learning. -Mid-Term Exam (24%) – A structured theory exam assesses knowledge retention and application of surgical principles covered in the first half of the semester. -Final Theory Exam (70%) – A comprehensive written exam evaluates the students' ability to integrate and apply their surgical knowledge across all topics studied during the course.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	•Bailey & Love's Short Practice of Surgery (Esser reference for surgical principles and procedures).
Main references (sources)	•Research articles, surgical journals, and updated clin protocols from trusted sources like WHO, CDC, surgical associations.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Internal Medicine	
2. Course Code:	
Med−14	
3. Semester / Year:	
2nd semester / 3rd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
3rd stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
30	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**By the end of this course, students will be able to:** **1.Understand the principles of infectious diseases, their transmission, and management.** **2.Describe the structure and function of the immune system and its rol in infection and autoimmunity.** **3.Recognize bacterial, viral, fungal, and parasitic infections, their pathogenesis, and treatment.**
9. Teaching and Learning Strategies	
Strategy	• Lectures: Conceptual explanations with real-life examples • Case-Based Learning: Clinical cases to integrate knowledge
10. Course Structure	

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2 Hours	1. Principle of infectious disease. 2. Management of poisoned patients	*PPT presentation *Case Discussion	*Assay Questions *MCQ
2	2 Hours	3. Fever 4. Poisoning by common agents	*PPT presentation *Case Discussion	*Assay Questions *MCQ
3	2 Hours	5. Pyrexia of Unknown Origin.	*PPT presentation	*Assay Questions *MCQ

		6. CO & Organophosphorus Agents.	*Case Discussion	
4	2 Hours	7. Viral infection-I 8. Envenomation.	*PPT presentation *Case Discussion	*Assay Questions *MCQ
5	2 Hours	9. Viral Infection-II 10. Anatomy & Physiology of Immune system.	*PPT presentation *Case Discussion	*Assay Questions *MCQ
6	2 Hours	11. Bacterial Infection-I. 12. Immune Deficiency.	*PPT presentation *Case Discussion	*Assay Questions *MCQ
7	2 Hours	13. Bacterial Infection-II 14. Inflammatory Response	*PPT presentation *Case Discussion	*Assay Questions *MCQ
8	2 Hours	Midterm Examination		
9	2 Hours	15.Bacterial Infection-III. 16. Autoimmunity.	*PPT presentation *Case Discussion	*Assay Questions *MCQ
10	2 Hours	17. Fungal infection 18. Allergy.	*PPT presentation *Case Discussion	*Assay Questions *MCQ
11	2 Hours	19. Parasitic infection-I 20. Anaphylaxis.	*PPT presentation *Case Discussion	*Assay Questions *MCQ
12	2 Hours	21. Parasitic Infection-II. 22. Angioedema.	*PPT presentation *Case Discussion	*Assay Questions *MCQ
13	2 Hours	23. Antibacterial agents. 24. Transplantation medicine	*PPT presentation *Case Discussion	*Assay Questions *MCQ
14	2 Hours	25. Antiviral & Antifungal agents.	*PPT presentation	*Assay Questions *MCQ

		26. Case based Discussion.	*Case Discussion	
15	2 Hours	27. Complementary Medicine 1 28. Evaluating CAM Therapies	*PPT presentation *Case Discussion	*Assay Questions *MCQ

11.Course Evaluation

A1: Explain the pathophysiology and clinical features of infectious diseases and immune disorders.
A2: Identify the pharmacology and mechanism of action of antimicrobial and immunomodulatory drugs.
A3: Describe the toxicological impact of common poisons and management strategies.

12. Learning and Teaching Resources

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

1. Course Name:
Internal Medicine
2. Course Code:
Med−14
3. Semester / Year:
2nd semester / 3rd year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
3rd stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
30
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	***Develop systematic examination techniques.** ***Identify normal vs. abnormal findings** ***Enhance doctor−patient communication.**

9. Teaching and Learning Strategies	
Strategy	• Lectures: Conceptual explanations with real-life examples • Case-Based Learning: Clinical cases to integrate knowledge

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1st	2	**Preparation & Introduction** • **Wash hands & sanitize** before and after examining the patient. • **Introduce yourself** and obtain **patient consent**. • Ensure **proper lighting, privacy, and patient comfort**. • Position the patient appropriately (sitting, lying).	Clinical Sessions	*OSCE Station *Short case discussion

2nd	2	• Observe the patient's **general appearance** (alert, in distress, comfortable).	Clinical Sessions	*OSCE Station *Short case discussion
3rd	2	• Look for **signs of illness**, such as pallor, jaundice, cyanosis, dehydration.	Clinical Sessions	*OSCE Station *Short case discussion
4th	2	• Assess **nutritional status**, posture, and gait.	Clinical Sessions	*OSCE Station *Short case discussion
5th	2	**Vital Signs Assessment** • **Temperature** (oral, axillary, rectal) • **Pulse** (rate, rhythm, volume) • **Respiratory rate** (rate, pattern, effort) • **Blood pressure** (both arms, correct cuff size) • **Oxygen saturation (SpO_2)**.	Clinical Sessions	*OSCE Station *Short case discussion
6th	2	**Skin and Nails** • Inspect for **color changes** (pallor, jaundice, cyanosis). • Look for **rashes, lesions, scars, ulcers**. • Check nails for **clubbing, cyanosis, pallor, splinter hemorrhages**.	Clinical Sessions	*OSCE Station *Short case discussion
7th	2	• **Head**: Inspect for trauma, asymmetry, or swellings. • **Eyes**: Check pupil size, reaction to light, scleral color, conjunctiva.	Clinical Sessions	*OSCE Station *Short case discussion
8th	2	• Clinical training Review.	Clinical Sessions	
9th	2	• **Ears**: Look for discharge, hearing assessment. • **Nose**: Assess patency, any deformities, nasal discharge.	Clinical Sessions	*OSCE Station *Short case discussion

10th	2	• **Throat & Oral Cavity**: Check for ulcers, hydration, tongue appearance. • **Lymph Nodes**: Palpate cervical, submandibular, axillary, and inguinal nodes.	Clinical Sessions	*OSCE Station *Short case discussion
11th	2	• Examination of Oedema. • Localized or generalized.	Clinical Sessions	*OSCE Station *Short case discussion
12th	2	• Examination of lower limb • Look, Feel & move.	Clinical Sessions	*OSCE Station *Short case discussion
13th	2	• **Supervised practice** on real patients.	Clinical Sessions	*OSCE Station *Short case discussion
14th	2	• **Supervised practice** on real patients.	Clinical Sessions	*OSCE Station *Short case discussion
15th	2	• **Supervised practice** on real patients.	Clinical Sessions	*OSCE Station *Short case discussion

11.Course Evaluation

Observe the candidate examination methods

12. Learning and Teaching Resources

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

1. Course Name:
Pathology
2. Course Code:
PATpat−31
3. Semester / Year:
2nd semester / 3rd year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
3rd stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
120
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**Develop the student's knowledge, skill, and attitude related to pathogenesis, morphological (microscopic and macroscopic pictures) a clinical manifestations of basic pathological processes and specific diseases at the molecular, cellular, tissue, organs, and whole body lev**

9. Teaching and Learning Strategies	
Strategy	1. Illustrate microscopic data of different pathological lesions. 2- Differentiate between different diagnoses to arrive at a preferred or defi diagnosis.

10. Course Structure

Week	Hours	Required learning outcomes	Unit name/topic	Teaching method	Evaluation method
1+2+3	12 hours theoretical + 12 hours practical weekly	**Gastrointestinal tract**.	Pathology	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture +

					writing a report on the results of the work
4+5	٨hr. +٨hr labs	**Liver, biliary tract & pancreas**	//	//	//
6+7	8hr.+٨hr. labs	**Urinary system**	//	//	//
8	4hr.+٤ hr. labs	**Female genital tract**	//	//	//
9	**4hr.+٤ hr. labs**	**breast**	//	//	//
10+11	8hr.+ 8hr. labs	**Endocrine system**	//	//	//
12	4hr + 4hr.labs	**Skin**	//	//	//
13	4hr. + 4hr.labs	**Bones and joints**	//	//	//
١4	4hr +4hr. labs	**Central nervous system**	//	//	//
15	4hr +4hr. labs	**Male Genital tract**	//	//	//

11.Course Evaluation	
• Midterm and final exams. • Quizzes during lectures and laboratory sessions. • Short-answer questions during lectures. • Group discussions. • Practical exams and lab experiments. • Seminars.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	M1. Robbins basic pathology 10th ed
Main references (sources)	Text book of pathology By Muir's 1. Text book of pathology By Muir's 1. Text book of pathology By Muir's 1. Text book of pathology By Muir's
Recommended books and references (scientific journals, reports…)	

Electronic References, Websites	

1. Course Name:	
Pharmacology	
2. Course Code:	
Phar.5	
3. Semester / Year:	
2nd semester / 3rd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
3rd stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
75	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**• To critically assess the basic concepts in pharmacology and the pharmacological basis of therapeutics.** **–To introduce students to the core principles of drug action in terms o** **bioavailability, pharmacokinetics, pharmacodynamics and mechanism** **action of drugs in the treatment of diseases.** **–To introduce students to critically assess drug efficacy, side effects, toxicities,** **–drug interactions and special emphasis on dosage concerns in specia** **populations such as the young, pregnant women and in the elderly.**
9. Teaching and Learning Strategies	
Strategy	•Use modern teaching aids such as PowerPoint presentations, animations, a whiteboards for clarification. •Practical applications of laboratory diagnostics.
10. Course Structure	

Week	Hours	Required learning outcomes	Teaching method	Evaluation method
1	3 hours theoretical	**- Introduction and basic principles of chemotherapy**	Theoretical	Oral questions

	+ 2 hours practical weekly.	- sulfonamides - Quinolones	lectures using projectors and smart board + practical experiments and skills, PPT presentation	at the end of the theoretical lecture, and discussion with students about the lecture + writing a report on the results of the work. + - Short exams. -Half course. - End of course. Success from the second stage (3rd stage) students. /
2		-B-Lactam antibiotics. -aminoglycosides. - macrolides and keloids.		
3		**- Tetracycline and chloramphenicol. - anti mycobacterial drugs. - antifungal drugs**.		
4		**-anti-amoebic and other antiprotozoal drugs. -anti-helminthic agents. -antiviral.**		
5		**-anti-AIDS drugs. -chemotherapy of UTI &STDS. -basic principle of cancer chemotherapy**.		
6		**-pharmacology of pituitary and hypothalamic hormones -thyroid hormones and ant thyroid drugs - estrogen, progesterone and inhibitors**		
7		**- Oral contraceptive. -HRT, hormone replacement therapy. -Androgen**.		
8		**-Drugs for diabetes mellitus: Insulin and oral ant diabetic agents I. - Drugs for diabetes mellitus: Insulin and oral anti-diabetic agents II.**		
9		**Mid. Exam**.		
10		**-Adreno-corticosteroids (corticosteroids and antagonists).**	Theoretical lectures using projectors and smart board +	

		- parathyroid hormones and drugs affecting. calcium balance. **- dugs acting on uterus.**	practical experiments and skills, PPT presentation	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture + writing a report on the results of the work. + - Short exams. -Half course. - End of course. Success from the second stage (3rd stage) students.
11		- **Drugs treatment for infertility and erectile dysfunction.** - **anti- epileptics.** - **anti-Parkinson's drugs**.		
12		**- Antipsychotics.** **- Local anesthetics.** - **general anesthetics**.		
13		-**GIT: anti-muscarinic drugs and drugs acting on intestinal motility.** **-anti emetics drugs regulating appetite, drugs.** **-drugs regulating stomach secretion, antiulcer drugs**.		
14		-**drugs acting on respiratory system.** **- mast cell stabilizer / anti IGE antibodies.** **-respiratory stimulants.** **-pul. surfactant, expectorant. -- miscellaneous**.		
15		**Complementary therapy**		

11.Course Evaluation

- Midterm and final exams.
- Quizzes during lectures and laboratory sessions.
- Short-answer questions during lectures.
- Group discussions.
- Practical exams and lab experiments.
- Seminars.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Goodman and Gilman's, The Pharmacologi Basis of Therapeutics, 14th ed. (2022).

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

1. Course Name:	
Virology	
2. Course Code:	
Viro−11	
3. Semester / Year:	
2nd semester / 3rd year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
3rd stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
60	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**. Introduction to medical virology (discovery of viruses, virus structure, chemical components of the virus) and clarification of the sizes of medically important viruses and their role in causing and controlling diseases.** **• . Discussing the types of human viruses, the diseases they cause, and methods of diagnosing, treating, and preventing them** **• Learn about the techniques used in its diagnosis, how to select the sample, and the m important modern examinations and tests used.**
9. Teaching and Learning Strategies	
Strategy	Practice the diagnosis of viral diseases • Identify the relationship between various medical viruses and some diseases a practice taking live models and samples and examining them • Learn methods for collecting pathological viral samples. • Recognizing the danger of dealing with pathogenic viruses and contamina samples to the surrounding environment.
10. Course Structure	

Week	Hours	Required learning outcomes	Unit name/topic	Teaching method	Evaluation method
1	2 hours theoretical + 2 hours practical weekly	General principle of virology	Virology	Theoretical lectures using projectors and smart board + practical	Oral questions at the end of the theoretical lecture, and discussion with
2		Properties *of viruses*	Virology		

3		Chemical composition of viruses	Virology	experiments and skills	students about the lecture + writing a report on the results of the work
4		Orthomyxoviridae	Virology		
5		Paramyxoviridae	Virology		
6		Coronaviridae	Virology		
7		Poxviridae	Virology		
8		Herpesviridae	Virology		
9		HIV	Virology		
10		Rioviridae	Virology		
11		Hepatitis viruses	Virology		
12		Human papilloma virus	Virology		
13			Virology		
14		Hookworms: Trichostrongylus, Trichinella spiralis, filaria.	Virology		
15		Trematodes: Introduction, blood flukes: Schistosoma. Other flukes: Intestinal, pulmonary, hepatic.	Virology		

11. Course Evaluation

- Midterm and final exams.
- Quizzes during lectures and laboratory sessions.
- Short-answer questions during lectures.
- Group discussions.
- Practical exams and lab experiments.
- Seminars.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	• Department Books • Text Book • Practical Book • Atlas • Self evaluation guide (book)
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
parasitology
2. Course Code:
3. Semester / Year:
2nd semester / 3rd year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
3rd stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
60
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	• **Definition and introduction to the most important medical parasites (protozoa and metazoa) and an explanation of their most important diseases and their role in causing a controlling diseases.** • **Identify the most important infectious diseases and methods of diagnosing, treating ar preventing them.** • **Learn about the techniques used in its diagnosis, how to select the sample, and the m important modern examinations and tests used.**

9. Teaching and Learning Strategies	
Strategy	Practice the diagnosis of viral diseases • Identify the relationship between various medical viruses and some diseases a practice taking live models and samples and examining them • Learn methods for collecting pathological viral samples. • Recognizing the danger of dealing with pathogenic viruses and contamina samples to the surrounding environment.

10. Course Structure

Week	Hours	Required learning outcomes	Unit name/topic	Teaching method	Evaluation method
1	2 hours theoretical + 2 hours practical weekly	*General parasitology*	parasitology	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture + writing a report on the results of the work
2		Entamoeba histolytica, Non-pathogenic amoeba spp.	parasitology		
3		.Flagellates: Intestinal, Oral and Genital Flagellates (Giardia lamblia, Trichomonas vaginalis, T.tenax).	parasitology		
4		Blood and tissue flagellates: Old World Leishmaniasis (Leishmania donovani,	parasitology		

		L. infantum, L.tropica, L.major and L. aethiopica).			
5		Blood and tissue Flagellates: New World Leishmaniasis (L.braziliensis complex, L.mexicana complex, L. peruviana and L.chagasi	parasitology		
6		.Blood and Tissue Flagellates Trypanosomes (Trypanosom abrucei T.gambiense, T.rhodesiense, T.cruzi)	parasitology		
7		Sporozoa: Cryptosporidium parvum, Balantidium coli.	parasitology		
8		Sporozoa: Malaria	parasitology		
9		Sporozoa: Toxoplasma gondii, Sarcocystis and Babesia.	parasitology		
10		Cestodes: Introduction, Echinococcus granulosus and multilocularis	parasitology		
11		Cestodes: Taenia solium, Taenia saginata, Dipylidium caninum, Diphyllobothrium latum.	parasitology		
12		Nematodes: Introduction, Enterobius vermicularis, Trichuris trichiura	parasitology		
13		Nematodes: Ascaris lumbricoides, Strongyloides stercoralis	parasitology		
14		Hookworms: Trichostrongylus, Trichinella spiralis, filaria.	parasitology		
15		Trematodes: Introduction, blood flukes: Schistosoma. Other flukes: Intestinal, pulmonary, hepatic.	parasitology		

11.Course Evaluation

- Midterm and final exams.
- Quizzes during lectures and laboratory sessions.
- Short-answer questions during lectures.

• Group discussions. • Practical exams and lab experiments. • Seminars.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	• Department Books • Text Book • Practical Book • Atlas • Self evaluation guide (book)
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Clinical Nutrition and Family Medicine
2. Course Code:
COMCom−32
3. Semester / Year:
2nd semester / 3rd year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
3rd stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
60
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**−This course provides the student with basic knowledge and skills in community and family medicine/ Clinical Nutrition.** **This course provides the student with basic knowledge and skills in community and fa medicine**
9. Teaching and Learning Strategies	
Strategy	1.Delivering theoretical lectures using available presentation techniques (data show projectors and smart board). 2.Learning the correct scientific methods for collecting clinical samples, conducting da for scientific research 3.Developing students' skills through mental questions, answers, and special tests in practical session

	4.The student is required to write scientific topics related to the use of online researcl 5. E learning and google classroom

10. Course Structure

Week	Hours	Unit name/topic	Teaching method	Evaluation method
1. Introduction of nutrition	1		Different methods Classic lecture Group discussion Seminar Practical sessions	Quizes Reports Discussion Mid term exam Final term exam
2. Carbohydrates	1	Clinical nutrition		
3. Proteins	1			
4. Lipids	1			
5. Vitamins	1			
6. Minerals	1			
7. Water	1			
8. Energy	1			
9. Obesity	1			
10. Introduction of family medicine	1			
11. Communication skills	1			
12. Breaking bad news	1			
13. Dealing with angry patient	1			
14. Smoking cessation	1			

11.Course Evaluation

1. Theoretical exams (mid-year + end of year).
2. Practical exam: (oral exam, skill exam, practical information exam).
3. Reports.
4. Seminars by students.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Taylor Family Medicine textbook
Main references (sources)	William clinical nutrition Family Medicine Practice
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

4th year / 1st semester

Course Description Form

1. Course Name:
Obstetrics &gynecology
2. Course Code:
Gyn.22
3. Semester / Year:
1st semester / 4th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
4th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
30
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**The course describes the basic knowledges of obstetrics to the medical students in orc to build the clinical knowledge and clinical skills in the next years in diagnosis and treatment of the different diseases including the emergent conditions, in a way to partici in optimizing the medical services to the society**

9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the teachers. Case based learning to solve patient problem Small group teaching

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1st	2hrs.	Clinical anatomy of the female & reproductive tract Ovulation, Fertilization, Early Developments Of Fetus And Placenta	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture

		&Physiological Changes In Pregnancy I		
2nd	2hrs.	Physiological Changes In Pregnancy II& Normal Fetal Developments & Growth I	//	//
3rd	2hrs.	Normal Fetal Developments &Growth II& Antenatal Imaging & Assessment Of Fetal Well-Being I	//	//
4th	2hrs.	Antenatal imaging & Assessment Of Fetal Well-Being II.& Minor problems Of Pregnancy.	//	//
5th	2hrs.	Antenatal Care I & II.	//	//
6th	2hrs.	Normal Labor I (Anatomy Of Female Pelvis And Fetal Skull) &Normal Labor II (Physiology of labor).	//	//
7th	2hrs.	Normal Labor III (Stages And Mechanism) Normal Labor IV (Management Of Labor)	//	//
8th	2hrs.	Fetal Monitoring In Labor/Fetal comprised, Analgesia & Anesthesia In Labor	//	//
9th	2hrs.	Abnormal Labor, Breech Presentation & Other Malpresentation	//	//
10th	2hrs.	Operative Delivery I & II	//	//
11th	2hrs.	Medical complications of Pregnancy I& II	//	//

12th	2hrs.	Medical complications of Pregnancy III&IV	//	//
13th	2hrs.	Rhesus Isoimmunization Multiple Pregnancy	//	//
14th	2hrs.	Hypertensive disorders of pregnancy IUGR	//	//
15th	2hrs.	Preterm labour I & II	//	//

11. Course Evaluation	
Multiple choice questions quizzes Discussion during lecture Short questions during lecture	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	•Dewhurst's Textbook of Obstetrics Gynaecology, 9th Edition By Keith Edmond •Obstetrics By Ten Teachers, 21th Edition
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Pediatric
2. Course Code:
Pedi-30
3. Semester / Year:
1st semester / 4th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
4th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
30
7. Course administrator's name (mention all, if more than one name)

Name:	
8. Course Objectives	
Course Objectives	**The course describes the basic knowledges of pediatric to the medical students in ord to build the clinical knowledge and clinical skills in the next years in diagnosis and treatment of the different diseases including the emergent conditions, in a way to partici in optimizing the medical services to the society**
9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the teachers. Case based learning to solve patient problem Small group teaching
10. Course Structure	

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1st	2hrs.	**PRINCIPLES OF IMMUNIZATION**	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture
2nd	2hrs.	DIET OF THE NORMAL INFANT Abnormal Nutrition	//	//
3rd	2hrs.	GrowthAnd Development Rickets and vit d	//	//
4th	2hrs.	Upper respiratory tract disease Bronchiolitis	//	//
5th	2hrs.	Lower respiratory disease Cystic fibrosis	//	//
6th	2hrs.	Allergic disease asthma	//	//
7th	2hrs.	Chicken pox Polio virus	//	//
8th	2hrs.	Germen measles Mumps	//	//
9th	2hrs.	Herpesviruses 6 and 7 whooping coughPertussis	//	//
10th	2hrs.	Kala azar	//	//
11th	2hrs.	**Midterm Examination**	//	//

12th	2hrs.	Scarlet fever Tetanus	//	//
13th	2hrs.	tuberculosis	//	//
14th	2hrs.	measles	//	//
15th	2hrs.	Skill Lab	//	//

11.Course Evaluation	
Multiple choice questions quizzes Discussion during lecture Short questions during lecture	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	NELSON TEXTBOOK PEDIATRICS (2016)
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Cardiology /cardiovascular surgery	
2. Course Code:	
Sur.car.11	
3. Semester / Year:	
1st semester / 4th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
4th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
30	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**1.Understand the anatomy & physiology of cardiovascular system.** **2.Recognize the pathophysiological mechanisms of common cardiovascular diseases.** **3.Develop diagnostic and treatment strategies for cardiac disorders.** **4.Interpret diagnostic tools such as ECGs, echocardiograms, and stress tests.** **5.Understand the pharmacological and non-pharmacological treatment modalities.**
9. Teaching and Learning Strategies	
Strategy	•Lectures: Interactive presentations with multimedia support. •Case Discussions: Problem-based learning with real-life case studies. •Practical/Clinical Rotations: Hands-on experience in cardiology wards.
10. Course Structure	

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1st Week	**2**	1. Cardiac Anatomy & Physiology. 2. Investigations to CVS.		
2nd Week	**2**	3. Normal ECG. 4. Abnormal ECG.		
3rd Week	**2**	5. Heart Failure. 6. Management of Heart Failure.		
4th Week	**2**	7. Arrhythmia General Principles. 8. Atrial Arrhythmias.		
5th Week	**2**	9. Ventricular arrhythmias. 10. Cardiac Arrest.		
6th Week	**2**	11. Cardiopulmonary Bypass & Its Complications 12. Coronary Artery Bypass Surgery		
7th Week	**2**	13. Congenital Heart Diseases 14. Acquired Heart Diseases		
8th Week	**2**	Midterm Examination		
9th Week	**2**	15. Atherosclerosis. 16. Stable coronary artery disease.		
10th Week	**2**	17. Acute coronary syndrome. 18. Cardiogenic Shock.		
11th Week	**2**	19.Hypertension. 20. Diseases of myocardium.		
12th Week	**2**	21. Infections of heart. 22. Diseases of Pericardium.		
13th Week	**2**	23.Valvular Heart Diseases-1 24.Valvular Heart Diseases-2		
14th Week	**2**	25. Pericardial Conditions 26. Thoracic Outlet Syndrome		
15th Week	**2**	27. Vascular Diseases: Peripheral Arterial Diseases**.** 28. Vascular Diseases: Diseases Of Aorta.		

11.Course Evaluation

1.Continuous Assessment (30%)
Quizzes (3%)
Case presentations (3%)
Midterm exam (24%)
2.Final Examination (70%)
Written Exam (70%)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Davidson's Principles & Practice of Medicine 2 Edition
Main references (sources)	

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

1. Course Name:	
Respiratory	
2. Course Code:	
3. Semester / Year:	
1st semester / 4th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
4th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
30	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**•Provide foundational and advanced knowledge of pulmonology, including anatomy, physiology, and pathology of the respiratory system.** **•Develop diagnostic and clinical skills for common respiratory conditions such as asthm COPD, tuberculosis, and lung cancer.** **•Foster evidence-based medical practice and critical thinking in pulmonology.**
9. Teaching and Learning Strategies	
Strategy	•Knowledge-Based Learning: Lectures & Interactive Seminars. Online Modules & Self-Directed Learning. •Clinical-Based Learning: Bedside Teaching & Ward Rounds. Case-Based Learning (CBL) & Problem-Based Learning (PBL).
10. Course Structure	

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1st week	**2**		1. Anatomy & physiology of respiratory system 2. Investigations of respiratory system	• Lectures • Case-based discussions	
2nd Week	**2**		3. pulmonary function test. 4. Cardinal manifestations of respiratory disorders 1	• Lectures • Case-based discussions	
3rd Week	**2**		5. Cardinal manifestations of respiratory disorders 2 6. Asthma 1	• Lectures • Case-based discussions	
4th Week	**2**		7. Asthma Management. 8. COPD.	• Lectures • Case-based discussions	
5th Week	**2**		9. Bronchiectasis & cystic fibrosis. 10. Pneumonia 1	• Lectures • Case-based discussions	
6th Week	**2**		11. Pneumonia 2 12. Tumor of lung.	• Lectures • Case-based discussions	
7th Week	**2**		13.Pneumothorax and its surgical management. 14. Haemothorax and its surgical management	• Lectures • Case-based discussions	
8th Week	**2**		Midterm Examination		
9th Week	**2**		15. TB 1 16. TB 2	• Lectures • Case-based discussions	
10th Week	**2**		17. Pulmonary Embolism 18. Pulmonary hypertension.	• Lectures • Case-based discussions	
11th Week	**2**		19. Interstitial lung disease 1 20. interstitial lung disease 2	• Lectures • Case-based discussions	
12th Week	**2**		21. Presentation of lung disease & Investigation of chest pathology 22. The mediastinum , disease and tumours.	• Lectures • Case-based discussions	
13th	**2**		23. Diaphragmatic disorders and	• Lectures	

Week			their surgical aspects 24. Intrabronchial Foreign bodies	• Case-based discussions	
14th Week	**2**		25. Lung Abscess 26. Pulmonary Hydatid disease	• Lectures • Case-based discussions	
15th Week	**2**		27. Chest Injuries. 28. Malignant lung tumour and their management	• Lectures • Case-based discussions	

11.Course Evaluation	
-Formative Assessments (Continuous Evaluation): Quizzes & Online MCQs (weekly/monthly). Case-Based Presentations & Group Discussions -Summative Assessments (Final Evaluation): Written Examination: Multiple-choice questions (MCQs) & short-answer questions (SAQs). Problem-solving case scenarios	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Davidson's Principles & Practice of Medicine 24th edition
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Nephrology	
2. Course Code:	
Sur.Neph.8	
3. Semester / Year:	
1st semester / 4th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
4th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
45	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**The course describes the basic knowledges of urology and nephrology 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 diseases including , stone disease urinary tract infections and emergent conditions, in a way to participate in optimizing th medical services to the society**
9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the teachers. Case based learning to solve patient problem Small group teaching
10. Course Structure	

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	3	1.Functional Anatomy & Physiology 1. 2.Functional Anatomy & Physiology 2. 3.Investigations of Renal System: Biochemical.	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture .
2	3	4.Investigations of Renal System: Radiological & Biopsy. 5.Urinary Tract Imaging 6,Presenting Problems In Renal Diseases 1.		
3	3	7.Presenting Problems In Renal Diseases 2. 8.Urinary Tract Infection. 9.Specific Urinary Tract Infection.		
4	3	10.Acute Kidney Injury. 11.Chronic Kidney Injury: Causes & Clinical Manifestations. 12.Obstructive Uropathy		
5	3	13.Chronic Kidney Injury: Main Treatment Options. 14.Chronic Kidney Injury: Complications 15.Cystic Diseases Of Kidney.		
6	3	16.Renal Replacement Therapy. 17.Renal Replacement Therapy complications 18.Renal Vascular Diseases.		
7	3	19.Glomerular Diseases. 20.Nephrotic Syndrome. 21.Nephritic Syndrome.		
8	3	22.Glomerular Diseases: Rapidly Progressive GN. 23.Tubulointerstitial Diseases 24.Congenital Anomalies Of Kidney , Ureter & Bladder		
9	3	25.Vesicoureteral reflux 26.Congenital Anomalies Of external genitalia 27.Renal Stone Diseases		
10	3	28.Ureteral Stone Diseases		

		29.Vesical and urethral stones 30.Upper urinary tract trauma		
11	3	31.Lower urinary tract trauma 32.Benign Prostatic Hyperplasia 33.Carcinoma Of Prostate 1		
12	3	34.Carcinoma Of Prostate 2 35.Tumors Of The Kidney And Ureter 1 36.Tumors Of The Kidney And Ureter 2		
13	3	37.Tumors Of The Urinary Bladder 38.Benign Disorders Of The Testicle 39.Tumors Of The Testis		
14	3	40.Urinary Incontinence 41.Neurogenic Bladder disease 1 42.Neurogenic Bladder disease 2		
15	3	43.Sexual Dysfunction 44.Male Infertility 45. Surgical Management of Male infertilityv		

11.Course Evaluation	
Multiple choice question the most appropriate answer (case scenarios) quizzes	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1. Baily and Love's Textbook / Short Practice Surgery 2. Smith's General Urology 3. Harrison's Principles of Internal Medicine 4. Davidson's Principles and Practice of Medicir
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Community Medicine	
2. Course Code:	
COMCom-41	
3. Semester / Year:	
1st semester / 4th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
4th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
90	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**This course provides the student with basic knowledge and skills in community and fa medicine (primary health care) epidemiology**
9. Teaching and Learning Strategies	
Strategy	1.Delivering theoretical lectures using available presentation techniques (data show projectors and smart board). 2.Learning the correct scientific methods for collecting clinical samples, conducting da for scientific research 3.Developing students' skills through mental questions, answers, and special tests in practical session 4.The student is required to write scientific topics related to the use of online researc 5. E learning and google classroom
10. Course Structure	

Week	Hours	Required learning outcome	Unit name/topic	Teaching method	Evaluation method
1. Introduction of epidemiology 2. Ratio, proportion & rate 3. Population pyramids 4. Dynamics of disease transmission 5. Outbreak/ epidemic / pandemic 6. Investigation of an outbreak/ epidemic 7. Screening test 8. Measures of disease frequency (Incidence and prevalence) 9. Measures mortality rate/ ratio 10. Judgment of cause and effect relationship. 11. Risk assessment 12. Concept of PHC 13. MDG and SDG 14. IMCI 15. Expended program on immunization (EPI) 16. Maternal & Child health 17. Breast feeding 18. Child growth	3 2 1 1 1 2 2 3 3 2 1 1 2 1 1 1 1 1	Predict trends in disease occurrences, describe disease models, risk, and contributing, assess an epidemic, formulate disease preventive strategies.	Basic epidemiology	Different methods Classic lecture Group discussion Seminar Practical sessions	Quizes Reports Discussion Mid term exam Final term exam

11.Course Evaluation	
1.Theoretical exams (mid-year + end of year). 2.Practical exam: (oral exam, skill exam, practical information exam). 3.Reports. 4.Seminars by students.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Text book of Public Health Medicine for Tropics. Epidemiology. Fourth edition. Leon Gordis
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

المؤسسة التعليمية/ الكلية	جامعة الفلوجة \ كلية الطب
القسم الذي يقدم المادة	قسم علم الامراض
اسم البرنامج الأكاديمي	الطب العدلي
نماذج الحضور المتوفرة	الزامي
العام الدراسي \المرحلة	2025\2024 المرحلة الرابعة
الفصل الدراسي \السنة	الفصل الدراسي الأول2024\2025
ساعات الفصل الدراسي الكاملة	**30**ساعة نظري + **45** ساعة عملي
تاريخ بداية الفصل الدراسي الأول	**11/5/2025**
الأهداف العامة للفصل الدراسي	تنمية معارف ومهارات وسلوك الطالب فيما يتعلق بالتعرف على أشكال العلامات السريرية لمختلف أنواع الجروح وكيفية كتابة تقرير الطب الشرعي لها، وكذلك تشخيص حالات الوفاة وارتباطها بالعنف أو الجريمة. بالإضافة إلى معرفة أهمية الطب الشرعي لمعظم الحوادث الطبيعية وغير الطبيعية مثل الصعق الكهربائي والاختناق والاعتداء الجنسي. إلى جانب النقاط المذكورة أعلاه، هناك بعدًا سميًا إضافيًا حيث يتم شرح وتوضيح تأثيرات المواد الكيميائية والمواد السامة المختلفة من الجوانب السريرية والطبية القانونية

هيكل الفصل الدراسي					
الأسبوع	الساعات	مخرجات التعلم المطلوبة	اسم الوحدة/الموضوع	طرق التدريس	طرق التقييم
الأول	ساعتين نظري + ٣ساعات عملي		مقدمة عن الطب العدلي	محاضرات نظرية باستخدام أجهزة العرض والسبورة الذكية + تجارب ومهارات عملية	أسئلة شفهية في نهاية المحاضرة النظرية ومناقشة مع الطلاب حول المحاضرة + كتابة تقرير عن نتائج العمل
الثاني	ساعتين نظري + ٣ ساعات عملي		تعريف		
الثالث	ساعتين نظري + ٣ ساعات عملي		الموت		

الرابع	ساعتين نظري + ٣ ساعات عملي		الجروح		
الخامس	ساعتين نظري + ٣ ساعات عملي		إصابات الراس والجسم		
السادس	ساعتين نظري + ٣ ساعات عملي		الطب العدلي وتقارير الطب العدلي		
السابع	ساعتين نظري + ٣ ساعات عملي		تقدير العمر		
الثامن	ساعتين نظري + ٣ ساعات عملي		الإصابات الحرارية		
التاسع	ساعتين نظري + ٣ ساعات عملي		الإصابات الكهربائية		
العاشر	ساعتين نظري + ٣ ساعات عملي		الموت المفاجئ		
الحادي عشر	ساعتين نظري + ٣ ساعات عملي		الاعتداءات الجنسية		
الثاني عشر	ساعتين نظري + ٣ ساعات عملي		الاختناق		
الثالث عشر	ساعتين نظري + ٣ ساعات عملي		طب الأطفال العدلي والإساءة للأطفال		
الرابع عشر	ساعتين نظري + ٣ ساعات عملي		طرائق التشريح		
الخامس عشر	ساعتين نظري + ٣ ساعات عملي		مراجعة للفصل الاول		

المصادر والمتطلبات :	
الكتب المطلوبة	
المصدر الأساسي	الوجيز في الطب العدلي وصفي محمد علي
الكتب والمراجع الموصي بها (المجلات العلمية والتقارير وغيرها)	• **AND PATHOLOGY Casarett & Doull's Toxicology: The Basic Science of Poisons.**
المراجع الإلكترونية والمواقع الإلكترونية وغيرها	**Joseph prahlow : atlas of forensic pathology and forensic pathology**

4th year / 2nd semester

Course Description Form

1. Course Name:
Obstetrics &gynecology
2. Course Code:
Gyne.11
3. Semester / Year:
2nd semester / 4th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
4th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
15
7. Course administrator's name (mention all, if more than one name)
Name:
8. Course Objectives

Course Objectives	**The course describes the basic knowledges of obstetrics to the medical students in orc to build the clinical knowledge and clinical skills in the next years in diagnosis and treatment of the different diseases including the emergent conditions, in a way to partici in optimizing the medical services to the society**
9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the teachers. Case based learning to solve patient problem Small group teaching Assessment methods
10. Course Structure	

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1st	1hr	Obstetric Emergencies I	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture
2nd	1hr	Obstetric Emergencies II	//	//

3rd	1hr	The Puerperium I	//	//
4th	1hr	The Puerperium II	//	//
5th	1hr	Post term pregnancy	//	//
6th	1hr	Antepartum Hemorrhage I	//	//
7th	1hr	Antepartum Hemorrhage II	//	//
8th	1hr	Prenatal Diagnosis	//	//
9th	1hr	Obstetrical Complication, VTE& Thrombophilia	//	//
10th	1hr	Oligo &Polyhydramnios Smoking & Alcoholism In Pregnancy	//	//
11th	1hr	induction of labour	//	//
12th	1hr	Perinatal Infection I	//	//
13th	1hr	Perinatal Infection II	//	//
14th	1hr	The neonate	//	//
15th	1hr	Psychiatric Disorder in Puerperium	//	//

11.Course Evaluation

Multiple choice questions
quizzes
Discussion during lecture
Short questions during lecture

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	•Dewhurst's Textbook of Obstetrics Gynaecology, 9th Edition By Keith Edmond •Obstetrics By Ten Teachers, 21th Edition
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Pediatrics
2. Course Code:
Pedi−14
3. Semester / Year:
2nd semester / 4th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
4th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
30
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**The course describes the basic knowledges of pediatrics to the medical students in or to build the clinical knowledge and clinical skills in the next years in diagnosis and treatment of the different diseases including the GIT, neonatal, genetics, and nephrolog emergent conditions, in a way to participate in optimizing the medical services to the concerning diseases**

9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the teachers. Case based learning to solve patient problem Small group teaching

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
			Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture
1st	2hrs.	-Acute gastroenteritis in children, etiology, -Mechanism of diarrhea Dehydration, ,types of dehydration -Treatment of acute gastroenteritis	//	//

2nd	2hrs	-Calculation of fluid deficit and maintenance -Complications of diarrhea -Chronic diarrhea - Pathophysiology, causes, celiac disease, -Malabsorption syndromes	//	//
3rd	2hrs .	-Abdominal pain -Abdominal migrain	//	//
4th	2hrs	-Classification of newborn baby -Assessment APGAR score. -Neonatal Reflexes -Common cutaneous lesions. - Causes of low-birth-weight baby - Preterm baby -Small for-date baby	//	//
5th	2hrs	-Respiratory distress syndrome - Differential diagnosis of RDS in newborn baby - Bronchopulmonary dysplasia - Retinopathy of prematurity -Transient tachypnea of newborn baby -Meconium aspiration syndrome -Congenital diaphragmatic hernia -Apnea	//	//
6th	2hrs.	- Hypoglycemia - Infant of diabetic mothers - Hypocalcemia - Neonatal seizures	//	//
7th	2hrs.	- Neonatal sepsis -TORCH infection -Examination of the newborn baby. - Classification of newborns - Examination of newborns	//	//
8th	2hrs.	-Birth injuries -Birth asphyxia -Hemorrhagic	//	//

		disease of newborn		
9th	2hrs	- Jaundice, pathophysiology of neonatal jaundice. - differentiate pathologic from physiologic jaundice. - how to manage pathologic jaundice. hemolytic disease of the newborn	//	//
10th	2hrs.	ABO incompatibility - RH incompatibility **Midterm Examination**	//	//
11th	2hrs.	- Proteinuria - Nephrotic syndrome -Management of nephrotic syndrome	//	//
12th	2hrs.	-Poststreptococcal Glomerulonephritis**)** - Hemolytic-uremic syndrome - - Henoch-schonlein purpura	//	//
13th	2hrs	Urinary tract infections - Vesicoureteral Reflux	//	//
14th	2hrs	-Acute kidney injury - Chronic kidney disease - RTA	//	//
15th	2hrs	Pattern of inheritance -Chromosomal Acute kidney injury disorders - Down syndrome - trisomy 18 - trisomy 13 - turner syndrome		

11.Course Evaluation	
The most appropriate answer (case scenarios) quizzes	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Nelson Text Book of pediatrics
Main references (sources)	workshops, periodicals, IT software, websites)
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
GASTROENTOROLOGY	
2. Course Code:	
3. Semester / Year:	
2nd semester / 4th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
4th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
75	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**1-Understand GIT Anatomy & Physiology Gain a solid foundation in the structure and function of the gastrointestinal system relevant to surgery** **2-Recognize Common GIT Disorders Learn to identify and differentiate between commo surgical conditions like appendicitis, peptic ulcer disease, bowel obstruction, and colore cancer** **3-Develop Diagnostic Skills Understand how to assess patients, interpret imaging (X-ra CT, endoscopy), and recognize indications for surgical intervention**
9. Teaching and Learning Strategies	
Strategy	This course is given as five lectures per week for 1 hour each. The lectures interactive and composed of PowerPoint presentations, images, and videos to illustr

	concepts and procedures. Case-based learning with pre- and post-questions. Onl resources such as online meetings, social media groups and e-books can supplem traditional lectures and provide additional opportunities for learning as well as vari student tasks to implement self-directed learning.

10. Course Structure

Week	Hour	Unit name/topic	Teaching Method	Assessment Method
1	5	-Functional Anatomy of GIT. -Physiology Of GIT. -Functional Anatomy of Liver. -Physiology and investigation of G.I.T of Liver.	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture .
2	5	-Diseases Of Esophagus -The clinical features of esophageal diseases. -Pathology of Esophagus - Surgical management of Esophagus		
3	5	-Diseases Of Stomach - Surgical management of Stomach -Diseases Of Duodenum - Surgical management of Duodenum		
4	5	-Peptic ulcer disease and upper GIT bleeding -Gastric cancer -Basic surgical techniques -Open and laparoscopic & the management of postoperative problems		
5	5	-Diseases Of Small Intestine - Surgical management of Small Intestine -Benign and malignant Of Small Intestine - Surgical management of Benign and malignant tumor Of Small Intestine		
6	5	-Inflammatory Bowel Diseases -Pathophysiology of Inflammatory Bowel Diseases -Diagnosis of Inflammatory Bowel Diseases	GIT	

		-Inflammatory Bowel Diseases Treatment.		
7	5	-Irritable Bowel Syndrome. -Diseases Of Colon & Rectum -Medical management of Irritable Bowel Syndrome. - Benign lesions, malignant diseases of large bowel	GIT	
8	5	- Anatomy physiology of large bowel -The cardinal features on history and examination of intestinal obstruction -The causes of small and large bowel obstruction. -The indications for surgery and other treatment options in bowel obstruction	GIT	
9	5	-The clinical signs and differential diagnoses of appendicitis -The investigation of suspected appendicitis -The spectrum of mesenteric and retroperitoneal conditions - Surgical management of suspected appendicitis	GIT	
10		**Midterm Examination**	GIT	
11	5	-The pathology, clinical presentation of diseases that affect the anus and anal canal -Investigation of diseases that affect the anus and anal canal - Differential diagnosis of anal diseases treatment of diseases that affect the anus and anal canal -Hemorrhoids & its surgical treatment and complication	GIT	
12	5	-The investigation of liver disease -The management of liver trauma -Liver benign disease and malignant - Surgical management of liver	GIT	

13	5	-Cholestatic Liver Diseases -Pathophysiology of gallstones -Management of gallstones -Malignant disease of the gallbladder and bile ducts	GIT	
14	5	-Investigations of the pancreas -Congenital abnormalities of the pancreas. -Assessment and management of pancreatitis -Diagnosis and treatment of pancreatic cancer	GIT	
15	5	-Anatomy of spleen - Physiology of spleen -The common pathologies involving the spleen -The principles and potential complications of splenectomy	GIT	

11.Course Evaluation	
Multiple choice question the most appropriate answer (case scenarios) quizzes	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Baily and Love's Textbook / Short Practice Surgery.
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Endocrinology
2. Course Code:
Endo.3
3. Semester / Year:
2nd semester / 4th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
4th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
30
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**1.Understanding Endocrine Physiology and Pathophysiology.** **2.Identifying Endocrine Disorders.** **3.Mastering Clinical Assessment and Diagnosis.** **4.Developing Management Strategies.**

9. Teaching and Learning Strategies	
Strategy	•Traditional PowerPoint lectures on endocrine physiology and diseases. •Case-based discussions to highlight clinical relevance. •Use of question-and-answer (Q&A) sessions to reinforce concepts.

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
First	2	1. Pituitary diseases: Anatomy, physiology & presenting features of pituitary diseases. **2.** Pituitary diseases: Prolactinoma, & Craniopharyngioma	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions
Second	2	3.Pituitary diseases: Acromegaly & Diabetes Insipidus. **4.** Thyroid diseases: Anatomy, physiology &	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions

		presenting features of Thyroid diseases.		
Third	2	**5.** Thyroid diseases: Hyperthyroidism. **6.** Thyroid diseases: Hypothyroidism.	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions
Fourth	2	7. Parathyroid gland diseases: Anatomy, physiology & presenting features of parathyroid diseases. **8.** Parathyroid gland diseases: Hyperparathyroidism & Hypoparathyroidism.	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions
Fifth	2	9. Adrenal gland diseases: Anatomy, physiology & presenting features of adrenal gland diseases. **10.** Adrenal gland diseases: Cushing syndrome.	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions
Sixth	2	11. Investigations For Thyroid Swellings And Their Management **12.** Thyrotoxicosis And Thyroid Failure	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions
Seventh	2	13. Adrenal gland diseases: Hyper- & Hypoaldosteronism. 14. Complications Of Thyroid And Parathyroid Surgery	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions
Eighth	2	**Midterm Examination**		
Ninth	2	15. DM: Anatomy, physiology & presenting features of Exocrine pancreatic diseases.	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions

		16. Aetiology & Pathogenesis Of DM.		
Tenth	2	17. Investigation & diagnosis of DM 18**.** Presenting problems in DM 1.	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions
Eleventh	2	19. Presenting problems in DM 2. **20.** Management of DM.	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions
Twelfth	2	21. Acute Complications of DM. 22. Chronic Complications of DM.	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions
Thirteenth	2	23. Insulin Therapy. 24. Insulin Pumps.	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions
Fourteenth	2	25. Pheochromocytoma & Congenital adrenal hyperplasia. 26. Benign Adrenal Gland Disorders	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions
Fifteenth	2	27. Malignant Adrenal Gland Disorders 28. The Role Of Surgery In The Management Of Adrenal Gland	*PowerPoint lectures *Case Discussion	*MCQ *Essay Questions

11.Course Evaluation	
1.Essay Questions, 2.MCQ clinical scenarios.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Davidson's Principles & Practice of Medicine 2 Edition
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Behavioral sciences	
2. Course Code:	
3. Semester / Year:	
2nd semester / 4th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
4th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
15	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**This module deals with behavioral science as it forms the basis of the psychiatry module that is taught in the 5th grade.**
9. Teaching and Learning Strategies	
Strategy	
10. Course Structure	

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	**1.Neurotransmitters in the brain** Neurotransmitter and synthesis with its function	Large group lectures	
2	1	**2.Most important parts of the brain affect the behavior 1** Each part of brain and function with what occur if damage on behavior	Large group lectures	
3	1	**3.Most important parts of the brain affect the behavior 2** Each part of brain and function with what occur if damage on behavior	Large group lectures	
4	1	**4.memory** Mechanism of store information and types of memory	Large group lectures	
5	1	**5.emotion 1** Definition Key Elements Theories	Large group lectures	
6	1	**6.emotion 2** Types Emotions vs. Feelings	Large group lectures	
7	1	**7.motivation** Definition, measurement, and semantic field Components and stages	Large group lectures	
8				
9	1	**9.personality** How personality develops.1 The 2.nature and definition of personality 3.Personality variations among individuals 4.The influence of personality on thoughts, feelings, and behaviors 5.Patterns of thought, emotion, and behavior that make individuals unique	Large group lectures	
10	1	**10.intelligence** 1.Refers to the mental capacity to learn from experiences, adapt to new situations, understand abstract concepts, and manipulate one's environment 2.Includes skills such as problem-solving, critical thinking, and understanding complex ideas 3.No standard definition exists, but it can encompass a range of aptitudes, skills, and talents 4.IQ (intelligence quotient) is widely used to assess general intelligence 5.Other views suggest multiple different types of intelligence may exist	Large group lectures	

11	1	**11.sleep** Why Is Sleep Important? Why do we sleep? How much sleep do I need? What devices can help me sleep?	Large group lectures	
12	1	**12.perception** 1.What Is Perception? 2.Types of Perception 3.How Perception Works	Large group lectures	
13	1	**13.cognitive and moral development** 1.What Is Moral Development, exactly? 2.How Kohlberg Developed His Theory 3.Stages of Moral Development	Large group lectures	
14	1	**14.illness behavior** 1.The Multifaceted Influences on Illness Behavior 2.The Spectrum of Illness Behavior 3.The Ripple Effect: How Illness Behavior Impacts Healthcare	Large group lectures	
15	1	**15.learning** **H**istory **P**sychologists and learning theorists **P**sychology of learning theories	Large group lectures	

11.Course Evaluation	
Written exams (single-choice questions)	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Hilgard textbook for psychology, Kaplan & Sac for Psychiatry and Behavioral Sciences
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Community Medicine
2. Course Code:
COMCom-41
3. Semester / Year:
2nd semester / 4th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
4th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
45
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**This course provides the student with basic knowledge and skills in community and fa medicine/Communicable and non communicable disease with basic module for social medicine**

9. Teaching and Learning Strategies	
Strategy	1.Delivering theoretical lectures using available presentation techniques (data sh projectors and smart board). 2.Learning the correct scientific methods for collecting clinical samples, conducting d for scientific research 3.Developing students' skills through mental questions, answers, and special tests practical session 4.The student is required to write scientific topics related to the use of online researc 5. E learning and google classroom 6. Seminars of students

10. Course Structure

Week	Hours	Required learning outcome	Unit name/topic	Teaching method	Evaluation method
1. **Introduction of infectious disease** 2. Measles 3. Mumps 4. Rubella 5. Tetanus 6. Diphtheria	1 1 1 1 2 2 3	Predict trends in disease occurrences, describe disease models,	Basic epidemiology For prevention and control	Different methods Classic lecture Group discussion Seminar Practical sessions	Quizes Reports Discussion Mid term exam Final term exam

7. Pertussis 8. TB 9. HAV 10. HBV 11. HCV 12. HEV 13. HDV 14. Leishmania 15. Cholera	3 2 2 1 1 1 1	risk, and contributing, assess an epidemic, formulate disease preventive strategies.			

11.Course Evaluation	
1.Theoretical exams (mid-year + end of year). 2.Practical exam: (oral exam, skill exam, practical information exam). 3.Reports. 4.Seminars by students.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Text book of Public Health Medicine for Tropics. Epidemiology. Fourth edition. Leon Gordis Control of communicable disease manual
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

المؤسسة التعليمية/ الكلية	جامعة الفلوجة \ كلية الطب
القسم الذي يقدم المادة	قسم علم الامراض
اسم البرنامج الأكاديمي	الطب العدلي
نماذج الحضور المتوفرة	الزامي
العام الدراسي \المرحلة	٢٠٢٤\٢٠٢٥ المرحلة الرابعة
الفصل الدراسي \السنة	الفصل الدراسي الثاني ٢٠٢٤\٢٠٢٥
ساعات الفصل الدراسي الكاملة	**30**ساعة نظري +**45** ساعة عملي
تاريخ بداية الفصل الدراسي الأول	**11/5/2025**
الأهداف العامة للفصل الدراسي	تنمية معارف ومهارات وسلوك الطالب فيما يتعلق بالتعرف على أشكال العلامات السريرية لمختلف أنواع الجروح وكيفية كتابة تقرير الطب الشرعي لها، وكذلك تشخيص حالات الوفاة وارتباطها

	بالعنف أو الجريمة. بالإضافة إلى معرفة أهمية الطب الشرعي لمعظم الحوادث الطبيعية وغير الطبيعية مثل الصعق الكهربائي والاختناق والاعتداء الجنسي. إلى جانب النقاط المذكورة أعلاه، هناك بعدًا سميًا إضافيًا حيث يتم شرح وتوضيح تأثيرات المواد الكيميائية والمواد السامة المختلفة من الجوانب السريرية والطبية القانونية

هيكل الفصل الدراسي					
الأسبوع	الساعات	مخرجات التعلم المطلوبة	الوحدة/ الموضوع	طرق التدريس	طرق التقييم
الأول	ساعتين نظري + ٣ ساعات عملي		تغيرات الدم وسوائل الجسم وسياق العمل الجنائي في العراق	محاضرات نظرية باستخدام أجهزة العرض والسبورة الذكية + تجارب ومهارات عملية	أسئلة شفهية في نهاية المحاضرة النظرية ومناقشة مع الطلاب حول المحاضرة + كتابة تقرير عن نتائج العمل
الثاني	ساعتين نظري + ٣ ساعات عملي		اختبار البنوة		
الثالث	ساعتين نظري + ٣ ساعات عملي		حوادث القطارات والطائرات والوفيات الجراحية والتخدير العام		
الرابع	ساعتين نظري + ٣ ساعات عملي		الوصول إلى مرتكب الجريمة من خلال أدلة الطب العدلي الحديث		
الخامس	ساعتين نظري + ٣ ساعات عملي		**مقدمة في علم السموم والتعامل مع المرضى المتسممين**		
السادس	ساعتين نظري + ٣ ساعات عملي		التسمم بالمواد الأفيونية والماريجوانا		
السابع	ساعتين نظري + ٣ ساعات عملي		تعاطي المخدرات الأخرى الكوكايين والأمفيتامين وعقار ثنائي ايثل اميد حمض الليسرجيك والقات والبنزوديازيبينات والتسمم بالسيانيد		
الثامن	ساعتين نظري + ٣ ساعات عملي		التسمم بأحادي أوكسيد الكاربون والتسمم بالاسبرين		
التاسع	ساعتين نظري + ٣ ساعات عملي		التسمم بالفوسفات العضوي & علم السموم من مضادات الاكتئاب ثلاثية الحلقات (TCA)		
العاشر	ساعتين نظري + ٣ ساعات عملي		**التسمم بالكحوليات والإيثانول/الميثانول/الكربون & التسمم بالكيروسين والهيدروكربونات الأخرى**		
الحادي عشر	ساعتين نظري + ٣ ساعات عملي		**التسمم بالمعادن الثقيلة ، الرصاص والزئبق**		
الثاني عشر	ساعتين نظري + ٣ ساعات عملي		**التسمم بدواء البرستول**		

الثالث عشر	ساعتين نظري + ٣ ساعات عملي		**التسمم بالمواد الكاوية المبيضة وغيرها من المواد الكيميائية المهيجة**		
الرابع عشر	ساعتين نظري + ٣ ساعات عملي		**الإدمان**		
الخامس عشر	ساعتين نظري + ٣ ساعات عملي		**مراجعة الفصل الثاني**		

المصادر والمتطلبات	
الكتب المطلوبة	
المصدر الأساسي	الوجيز في الطب العدلي وصفي محمد علي
الكتب والمراجع الموصى بها (المجلات العلمية والتقارير وغيرها)	**COLOR ATLAS OF FORENSIC MEDICINE AND PATHOLOGY** **Casarett & Doull's Toxicology: The Basic Science of Poisons.**
المراجع الإلكترونية والمواقع الإلكترونية وغيرها	**Joseph prahlow : atlas of forensic pathology and forensic pathology**

Clinical

1. Course Name:
Obstetrics &gynecology
2. Course Code:
3. Semester / Year:
2nd semester / 4th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
4th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
64
7. Course administrator's name (mention all, if more than one name)
Name:
8. Course Objectives

Course Objectives	**History taking and clinical examination in obstetrics &gynecology** **Interpretation of diagnostic imaging and tools such as CTG and partogram**

9. Teaching and Learning Strategies	
Strategy	The students are divided into small groups in obstetrics & gynecological wards to examination on real patients & in skill lab on dummies . The students are divided into small groups to do seminars
10. Course Structure	

11.Course Evaluation	
OSCE Long cases Short cases	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	•Dewhurst's Textbook of Obstetrics & Gynecolo 9th Edition By Keith Edmond •Obstetrics & gynecology By Ten Teachers, 2 Edition
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	
1. Course Name:	
Medicine	
2. Course Code:	
3. Semester / Year:	
2nd semester / 4th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
4th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
64	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**By the end of this course, students should be able to:** **1.Conduct physical examinations for each system.** **2.Exhibit professional behavior and effective communication with patients and healthcare teams.** **3.Apply ethical and legal principles in clinical practice.**
9. Teaching and Learning Strategies	

Strategy	•Bedside Teaching – Supervised patient assessments. •Simulation Training – Hands-on practice with mannequins. •Small Group Discussions – Analysis of clinical cases. •Self-Directed Learning – Researching patient cases.

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
First	8 Hrs.	1.CVS Examination	Clinical Session	Short case Discussion OSCE
Second	8 Hrs.	2. CVS Examination	Clinical Session	Short case Discussion OSCE
Third	8 Hrs.	3. Chest Examination	Clinical Session	Short case Discussion OSCE
Fourth	8 Hrs.	4. Chest Examination	Clinical Session	Short case Discussion OSCE
Fifth	8 Hrs.	5. Abdominal Examination	Clinical Session	Short case Discussion OSCE
Sixth	8 Hrs.	6. Abdominal Examination	Clinical Session	Short case Discussion OSCE
Seventh	8 Hrs.	7. CNS Examination	Clinical Session	Short case Discussion OSCE
Eighth	8 Hrs.	8. CNS Examination.	Clinical Session	Short case Discussion OSCE

11.Course Evaluation
• Continuous Assessment: o Clinical Logbook. o Direct Observation of Procedural Skills (DOPS). o Mini Clinical Evaluation Exercise (Mini-CEX). • Objective Structured Clinical Examination (OSCE): o Simulated patient encounters. o Procedural skills stations.

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

1. Course Name:
Surgery
2. Course Code:
3. Semester / Year:
2nd semester / 4th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
4th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
64
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**History taking and clinical examination in surgical patients.** **Interpretation of diagnostic imaging and lab results.** **Basic surgical procedures like suturing, wound care, and catheterization.**

9. Teaching and Learning Strategies	
Strategy	The students are divided into small groups in obstetrics & gynecological wards to examination on real patients & in skill lab on dummies . The students are divided into small groups to do seminars

10. Course Structure

General Surgery

Routine surgical work
Student-staff-patient relation
Introduction to formal long case history taking
Introduction to focused History taking :
Focused history
Neurosurgical history (Patients with head injury)
Patients with abdominal pain (acute abd., appendicitis)
Patients with surgical jaundice
Patients with lumps.-ulcers.
Patients with post-operative fever
Patients with abd. Distension
Patients with peri anal pain ,bleeding ,lumps
Patients with leg pain-ischemic limb
Patients with goiter, neck lump
Patients with dysphagia
Patients with breast mass-nipple discharge
Patients with upper and lower GIT bleeding
Patients with groin lump
Patients with swollen leg

Urological history (loin pain /renal ureteric colic, hematuria, retention of urine)

Orthopedic history

Communication skills
Informed consent in surgical patients
Basic Skills of physical examination

Pulse examination

Blood pressure examination

Signs of anemia

Signs of dehydration

Signs of cyanosis

Signs of jaundice

Level of consciousness

Post-operative confusion, fever

Lumps /Cervical lymph nodes / Thyroid examination / Cystic hygroma

Examination of other neck masses (parotid ,subrandibular)

Carotid artery pulsations and carotid body tumor

Position of trachea

Skills of physical examination of head & neck

Chest deformity desertion

Chest expansion

Signs of pneumothorax

Signs of pleural effusion

Heart sounds and position of apex beat

Breast examination

Physical examination of the chest

Inspection for hernia orifices and cough impulse

Surgical incisions

Inspection of diversion of the recti

Stomas and colostomies

Palpate for hepatomegaly and how to measure liver span

Palpate for splenomegaly

Palpate for kidneys

How to differentiate between spleen left /kidney masses

Examine for ascites

Signs of hernia

Examination of genitalia

Physical examination of abdomen and genitalia

Ulcers

Describe shape and deformity

Signs of chronic ischemia

Peripheral pulsations

Examination for foot ulcers

Examination for super facial and deep sensations

Examination for muscle power muscle tone ,and reflexes

Examination for amputations Signs of DVT Signs of varicose veins Physical examination of lower limbs Types of skin incisions Describe colostomy (stoma) Describe drains Physical examination for post operation patient General and local abdominal examination Evaluation of acute abdomen Evaluation of head injury
Examination of kidneys, scrotal exam haematocele, testicular masses, epidermal cyst, urological conditions
Orthopedic examination of limbs

11. Course Evaluation

- Continuous Assessment:
  - Clinical Logbook.
  - Direct Observation of Procedural Skills (DOPS).
  - Mini Clinical Evaluation Exercise (Mini-CEX).
- Objective Structured Clinical Examination (OSCE):
  - Simulated patient encounters.
  - Procedural skills stations.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Baily and Love's Textbook / Short Practice Surgery
Main references (sources)	Brows Textbook of Clinical examination
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Pediatrics
2. Course Code:
3. Semester / Year:
2nd semester / 4th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
4th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
64
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**To Develop a Comprehensive Understanding of Pediatric Health and Disease** **To Promote Evidence-Based Practice** **To Enhance Communication and Patient-Centered Care** **To Build Skills in Preventive Pediatrics**

9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the teachers. Case based learning to solve patient problem Small group teaching

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
			History Clinical practical training	Discussin of history Proper clinical examination Assessment
1st	8hr.	Respiratory proper examination	//	//
2nd	81hr.	Dehydration assessment	//	//
3rd	8hr.	Cardiac proper examination	//	//
4th	8hr.	Neonatal examination	//	//
5th	8hr.	GIT proper examination	//	//
6th	8hr.	Nutritional assessment	//	//
7th	8hr.	CNS proper examination	//	//
8th	8hr.	Hypotonia and rickets examination	//	//

11.Course Evaluation	
The most appropriate answer (case scenarios) quizzes	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Hutchinson clinical pediatrics
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

5th year / 1st semester

Course Description For

1. Course Name:	
Pediatrics	
2. Course Code:	
Pedi−10	
3. Semester / Year:	
1st semester / 5th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
5th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
15	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**It is designed to provide students with a comprehensive foundation in the medical care infants, children, and adolescents. These aims ensure that students develop the necessa knowledge, skills, and attitudes to address the unique healthcare needs of pediatric populations. Below are the typical aims of a Pediatrics course:**
9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the teachers. Case based learning to solve patient problem Small group teaching
10. Course Structure	

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
			Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture
1st	1hr.	-Seizures in childhood - Types of seizures -Simple partial ,complex partial. absence seizures	//	//
2nd	1hr.	-Febrile seizures generalized tonic, clonic and tonic clonic seizures Infantile spasms (west syndrome) Juvenile myoclonic epilepsy	//	//
3rd	1hr.	-Congenital anomalies of the nervous system: - Spina bifida - Meningocele - Macrocephaly and microcephaly	//	//
4th	1hr.	-Intracranial pressure (ICP): definition, etiology, risk factor, clinical feature, investigation, treatment - Hydrocephalus - Floppy baby	//	//
5th	1hr.	-CNS infection	//	//
6th	1hr.	-Diseases of the anterior horn cell:(- - -Werdnig-Hoffmann disease): Peripheral neuropathy	//	//

		(Guillain-Barré syndrome)		
7th	1hr.	-Mental retardation Neurofibromatosis Tuberous sclerosis Sturge-weber syndrome	//	//
8th	1hr.	Cerebral palsy -Autism	//	//
9th	1hr	-Approach to poisoned patient - Initial evaluation& management of poisoning.	//	//
10th	1hr.	**Midterm Examination** Initial evaluation& management of acetaminophen & aspirin poisoning.	//	//
11th	1hr.	-Hydrocarbons, Tricyclic antidepressants, lead & organophosphorus poisoning	//	//
12th	1hr.	-Hypothyroidism -Congenital and juvenile hypothyroidism	//	//
13th	1hr	-Ambiguous genitalia - Congenital adrenal hyperplasia,	//	//
14th	1hr	-Short stature	//	//
15th		- Diabetic ketoacidosis - Hypoglycemia		

11.Course Evaluation
The most appropriate answer (case scenarios) quizzes

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

1. Course Name:
Hematology
2. Course Code:
Hema-11
3. Semester / Year:
1st semester / 5th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
5th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
30
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**•Understanding Blood Components and Function:** **•Recognizing Haematological Disorders:** **•Diagnostic Skills: CBC interpretation, Coagulation Profile & Bone marrow.**

9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the teachers. Case based learning to solve patient problem

	Small group teaching

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
First week	2	1. Introduction : Hematopoiesis , Blood Elements) 2. Investigation In Haematology.	Lectures Case Studies	Assay MCQ
Second Week	2	3. Presentation of blood disorders-1 4. Presentation of blood disorders-2	Lectures Case Studies	Assay MCQ
Third Week	2	5. Blood Transfusion. 6. Blood components.	Lectures Case Studies	Assay MCQ
Fourth Week	2	7. Transfusion Reaction. 8. HSC Transplantation.	Lectures Case Studies	Assay MCQ
Fifth Week	2	9.Anticoagulant & Antithrombotic Therapy 10. Approach for anaemia diagnosis.	Lectures Case Studies	Assay MCQ
Sixth Week	2	11. Nutritional Anaemia. 12. Haemolytic anaemia	Lectures Case Studies	Assay MCQ
Seventh Week	2	13. Haemoglobinopathy. 14. Haematological Malignancy.	Lectures Case Studies	Assay MCQ
Eighth Week	2	Midterm Examination		
Ninth Week	2	15. Acute Myeloid Leukaemia. 16. Acute Lymphoblastic Leukaemia.	Lectures Case Studies	Assay MCQ
Tenth Week	2	17. Chronic Myeloid Leukaemia. 18. Chronic Lymphoblastic Leukaemia.	Lectures Case Studies	Assay MCQ
Eleventh Week	2	19. Lymphoma. 20. Myelodysplastic Syndrome.	Lectures Case Studies	Assay MCQ
Twelfth Week	2	21. Aplastic Anaemia. 22. Myeloproliferative Disorders.	Lectures Case Studies	Assay MCQ
Thirteenth Week	2	23. Paraproteinemia. 24. Multiple Myeloma.	Lectures Case Studies	Assay MCQ
Fourteenth Week	2	25. Bleeding Disorders. 26. Thrombotic Disorders	Lectures Case Studies	Assay MCQ
Fifteenth Week	2	27. Overview-1 28. Overview-2	Lectures Case Studies	Assay MCQ

11.Course Evaluation

1. MCQ.
2. OSCE.

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Davidson's Principles & Practice Of Medicine 2 Edition Hoffbrand's Essential Hematology
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
neurosurgery
2. Course Code:
3. Semester / Year:
1st semester / 5th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
5th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
30
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**To produce students who are proficient in diagnosing and treating patients with neurolog and neurosurgical diseases**

9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the teachers. Case based learning to solve patient problem Small group teaching

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Approach For The Patient With Neurological Disease.	Direct lectures,interactive,case solving problems	Multiple choice questions,quizez
2	2	Cerbrovascular accendents		
3	2	Headache		
4	2	Infections of central nervous system		
5	2	epilepsy neurophtahlmology		
6	2	Demyelinating Disease Neurodegenerative Disorders		
7	2	Neuromuscular Junction Disease Peripheral Neuropathies		
8	2	coma		
9	2	Movements Disorders Dementia		
10	2	Acute Head Injury		
11	2	Intracranial Hemorrhage Subarachnoidal Hemorrhage		
12	2	Intracranial Space Occupying Lesion Pseudotumor cerebri		
13	2	Congenital anomalies		
14	2	Spinal Cord Compression Spinal Cord Vascular Diseases		
15	2	Functional neurosurgery		

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Davidson Harrison neurology
Main references (sources)	
Recommended books and references	

(scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Radiology
2. Course Code:
3. Semester / Year:
1st semester / 5th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
5th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
30
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**The course describes the basic knowledges of urology and nephrology to the medical students in order to build the clinical knowledge and clinical skills in the next years in radiological diagnosis of the different diseases , in a way to participate in optimizing th medical services to the society.**

9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the teachers. Case based learning to solve patient problem Small group teaching

10. Course Structure

Date	Topics & Objectives
1st Week	**Introduction :** 1. Aims & objectives of radiology. 2. The imaging department. 3. Basic principles of X-ray, ultrasound, radio-nuclide imaging, CT & MRI. 4. Indications, limitations, & contraindications of x-ray, ultrasound, radionuclide imaging, CT & MRI. 5. Contrast medium used in radiology. 6. X-ray hazards & radiation protection.
2nd Week	**Respiratory System: I ,II , III**

	1. Radiological anatomy of the lungs. 2. Investigations in chest diseases. 3. Chest x-ray technique & procedure, interpretation of normal chest x-ray. 4. Diseases of the chest with normal chest x-ray. 5. Radiological signs of lung disease (Silhouette sign, air space filling, pulmonary collapse, spherical shadows, cavitation, calcification, hilar enlargement, line & widespread shadows).
3rd Week	1. Diseases of the pleura. 2. Diseases of the mediastinum. 3. specific lung diseases (pneumonia, Lung abscess, Pulmonary TB, Pulmonary Hydatid, Diseases of the airway, Pulmonary embolism, Bronchogenic carcinoma, Pulmonary metastases, Pulmonary lymphoma, RDS & ARDS, Chest trauma, Radiation pneumonitis, Cystic fibrosis). 4. Diseases of the diaphragm.
4th Week	**Cardiovascular System: I , II** 1. Investigations of the cardiovascular system. 2. Radiological evidence of heart disease: (Heart size & shape, evidence of pericardial disease, pulmonary vessels). 3. Specific heart disease (Heart failure, Valvular heart disease, ischemic heart disease, congenital heart disease). 4. Diseases of the aorta. 5. Dextrocardia.
5th Week	**Gastrointestinal Tract : I, II** 1. Normal radiographic anatomy. 2. Types of contrast study of the GIT 3. Specific radiological terms in GIT diseases. 4. Diseases of the esophagus. 5. Diseases of the stomach small bowel. 6. Diseases of the large bowel.
7th Week	**Liver & Pancreas:** 1. Normal radiographic anatomy & investigations of hepatobiliary system. 2. Diseases of the liver & biliary system. 3. Radiological investigations of the spleen. 4. Radiological investigations & diseases of the pancreas.
8th Week	1. Diseases of the peritoneum (ascitis, peritoneal tumors, intra-peritoneal abscesses) 2. Investigations of the retro-peritoneum. 3. Diseases of the retro-peritoneum (retro-peritoneal lymphadenopathy, disease of the adrenal gland, retro-peritoneal tumors, aortic aneurysm, retro-peritoneal hematoma, retro-peritoneal & psoas abscesses)
9th Week	**Urinary tract I, II** 1. Investigations of the urinary tract 2. Urinary calculi & Nephrocalcinosis. 3. Urinary tract obstruction. 4. Renal paranchymal masses (simple renal cyst, Angiomyolipioma, Renal cell carcinoma).

	5. Urothelial tumor.
10th Week	1. Infection (acute & Emphysematous pyelonephritis, Renal & perinephric abscess, Pyonephrosis, Renal TB, Chronic pyelonephritis). 2. Vesico-ureteric reflux. 3. Renal trauma. 4. Chronic renal failure. 5. Congenital variation of the urinary tract. 6. Diseases of the UB, diseases of the prostrate, diseases of the Urethra. 7. Diseases of the Scrotum & testes.
11th Week	**Female Genital Tract** 1. Female Genital Tract Radiological Investigation And Diseases Investigations & normal radiographic anatomy. 2. Specific diseases of the female genital tract (ovarian masses, uterine masses, pelvic inflammatory disease, endometriosis). 3. Ultrasound appearance of normal uterine pregnancy. 4. Ectopic pregnancy. **Breast imaging** 5. Investigations of breast. 6. Normal radiographic anatomy. 7. Specific diseases of the breast (simple cyst, fibroadenoma, breast carcinoma).
12th Week	**Skull & brain I, II** 1. Imaging investigations of the skull & brain 2. Normal radiographic anatomy of the skull & brain. 3. Specific brain disorders: (brain tumors, stroke, infection, multiple sclerosis). 4. Radiology of head injury. **Sinuses, orbit & neck I, II** 1. Imaging techniques & diseases of the para-nasal sinuses. 2. Imaging techniques & diseases of the orbit. 3. Imaging techniques & diseases of the salivary glands. 4. Imaging techniques & diseases of the thyroid & para-thyroid gland. **Angiography** 1. Definition, indications, principles & complications of arteriograpy. 2. Indications of venography. 3. Specific vascular disorders (Aneurysms, Atheroma, arterio-venous fistula & malformation, Stenosis & Fibromuscular hyperplasia, Thrombosis & Embolism, vascular Tumors). **Interventional radiology** 1. Vascular interventional procetures. 2. Percutaneous needle biopsy.

	3. Percutaneous drainage of abscess & fluid collections. 4. Interventions in urinary obstruction. 5. Interventions in biliary obstruction.
13th Week	**Radiology of bone diseases I, II** 1. Plain radiographic Signs of bone diseases 2. Classification of bone diseases. 3. Radiological assessment of solitary bone lesion. 4. Malignant bone tumors: (Osteosarcoma, Chondrosarcoma, Ewing s sarcoma, Giant cell tumor). 5. Benign tumors & tumor like lesion.
14th Week	1. Bone infection (Osteomeylitis, TB). 2. Multiple focal bone lesions (bone metastases & multiple myeloma). 3. Generalized decrease in bone density. 4. Generalized increase in bone density. 5. Acromegally. 6. Radiology of bone trauma. **Radiology of joint diseases** 1. Imaging techniques of joint diseases. 2. Plain radiographic Signs of joint diseases 3. Arthritis (rheumatoid arthritis, osteoarthritis, pyogenic arthritis). 4. Avascular necrosis.
15th Week	**Radiology of the spine I, II** 1. Imaging investigations of the spine 2. Anatomical review. 3. Plain radiographic Signs of spinal abnormality. 4. Specific diseases of the spine: (Metastases, lymphoma & Myeloma, spinal infection, spinal trauma, degenerative disc disease, Spinal stenosis, Ankylosing spondylitis, Spinal dysraphysim, spinal cord compression).

11.Course Evaluation	
1. MCQ. 2. OSCE.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Diagnostic imaging , 7th edition , by Pe Armstrong
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Psychiatry	
2. Course Code:	
3. Semester / Year:	
1st semester / 5th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
5th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
30	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**1. Making candidate able to apply all the knowledge he gained to develop and implemen new approaches in diagnosis and management as a specialist in the field of psychiatry v high perfect professional skills.** **2. The candidate will have a wide vision about development of new methods and tools to analyze and criticize any research scientifically, and to use different technological metho which add to his/her Professional applications**
9. Teaching and Learning Strategies	
Strategy	1.focusses on learning methods and the questions were related to clinical teaching 2. which focusses on teaching aids and includes live patient presentation, chalkboard, slides, video, overheads, and computer-directed 3. focusses on verbal and nonverbal behavior and includes questions on enthusia language, and voice (clear, audible, and variable), eye contact with students, movem and gestures, and sense of humor.
10. Course Structure	

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	1.history taking and mental state examination 2. history taking and mental state examination	Oral explanation	Fast quizzes at the end of lecture
2	2	3.introduction to psychiatry 4.introduction to psychiatry	Oral explanation	Fast quizzes at the end of lecture
3	2	5.mood disorder 6.mood disorder	Oral explanation	Fast quizzes at the end of lecture
4	2	7. psychopharmacology 8. psychopharmacology	Oral explanation	Fast quizzes at the end of lecture
5	2	9. eating disorder 10. eating disorder	Oral explanation	Fast quizzes at the end of lecture
6	2	11.schizophrenia 12.schizophrenia	Oral explanation	Fast quizzes at the end of lecture
7	2	13. post-traumatic stress disorder 14. adjustment disorder	Oral explanation	Fast quizzes at the end of lecture
8		Mid exam		
9	2	15. obsessive compulsive disorder 16. general anxiety disorder	Oral explanation	Fast quizzes at the end of lecture
10	2	17.panic disorder 18.Social anxiety disorder	Oral explanation	Fast quizzes at the end of lecture
11	2	19.Personality disorder 20.Personality disorder	Oral explanation	Fast quizzes at the end of lecture
12	2	21.Psychotherapy 22.Somatic Symptom and Related Disorders	Oral explanation	Fast quizzes at the end of lecture
13	2	23.Suicide, Violence, and	Oral explanation	Fast quizzes at the end of lecture

		Emergency Psychiatric Medicine 24.Suicide, Violence, and Emergency Psychiatric Medicine		
14	2	25.Child psychiatry 26.Mental Disorders Due to a General Medical Condition	Oral explanation	Fast quizzes at the end of lecture
15	2	27.Dissociative Disorders 28.Sexual Dysfunction and Gender Dysphoria	Oral explanation	Fast quizzes at the end of lecture

11.Course Evaluation	
Quizzes Mid-term theory exam Final theory exam By contribution to the discussion	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Oxford of psychiatry text book
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Ophthalmology
2. Course Code:
Opth.33
3. Semester / Year:
1st semester / 5th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
5th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
30
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**The aim of ophthalmology course is to provide students with comprehensive knowledge skills related to the diagnosis, treatment, and prevention of eye diseases and disorders. course typically covers topics such as anatomy and physiology of the eye, refractive err common eye conditions (like glaucoma, cataracts, and retinal diseases), surgical techniques, and the use of diagnostic tools like ophthalmoscopy and slit lamp. The goal to equip students with the clinical and practical expertise needed to manage eye health a vision problems, ultimately contributing to better patient care and outcomes.**

9. Teaching and Learning Strategies	
Strategy	1.focusses on learning methods and the questions were related to clinical teaching 2. which focusses on teaching aids and includes live patient presentation, chalkboard, slides, video, overheads, and computer-directed 3. focusses on verbal and nonverbal behavior and includes questions on enthusia language, and voice (clear, audible, and variable), eye contact with students, movem and gestures, and sense of humor.

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	1. Introduction to optics, properties of light 2. Refractive Errors	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture + writing a report on the results of the work
2	2	3. Eyelid anatomy 4. Eyelid infection and lesions, Ptosis		
3	2	5. Orbital disorders 6. Lacrimal disorders		
4	2	7. Conjunctival disorders 8. Conjunctival lesions and degeneration		
5	2	9. Corneal diseases 10. Scleral diseases		
6	2	11. Crystalline lens disorders 12. Cataract surgery		
7	2	13. Glaucoma 14. Glaucoma management		
8	2	15. Investigation in ophthalmology 16. Ultrasound in ophthalmology		
9	2	17. Retinal breaks and detachment 18. Surgical treatment of retinal detachment		
10	2	19. Retinal vascular diseases 20. Diabetic retinopathy		
11	2	21. Anatomy of ocular muscles 22. Strabismus surgery		
12	2	23. Neuroophthalmology 24. Cranial nerve palsies		
13	2	25. Anatomy of uveal tract, uveitis 26. Management of uveitis		
14	2	27. Intraocular and extraocular tumors 28. Retinoblastoma Choroidal melanoma		
15	2	29. Ocular trauma 30. Management of eye trauma		

11. Course Evaluation

Multiple choice questions, Short Essays, Problem solving cases
Quizzes

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1.Kanski's Clinical Ophthalmology. A systema approach, Tenth Edition. 2.Clinical Optics. By A.R. Elkington and Helen Frank, Third Edition

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

1. Course Name:
Orthopedics &fractures
2. Course Code:
Orth–fra–1
3. Semester / Year:
1st semester / 5th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
5th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
45
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**The course describes the basic knowledge of Orthopedics &fractures to the medical students in order to build the clinical knowledge and clinical skills in thenext years in diagnosis and treatment of the different diseases including, Orthopedics &fractures and managements and the complications associated with them and their management and ho to deal with them in emergency department , in a way to participate in optimizing the medical services to the society**

9. Teaching and Learning Strategies	
Strategy	1.focusses on learning methods and the questions were related to clinical teaching 2. which focusses on teaching aids and includes live patient presentation, chalkboard, slides, video, overheads, and computer-directed 3. focusses on verbal and nonverbal behavior and includes questions on enthusia language, and voice (clear, audible, and variable), eye contact with students, movem and gestures, and sense of humor.

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method

1	3	**Fracture & joint injuries** 1.The management of major injuries 2.Principle of fractures. (I) : Classification of fracture & fracture healing. **3.**Principle of fractures. (II) :Management of fracture.	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture + writing a report on the results of the work
2	3	4.Principle of fractures. (III): Complication of fracture 5.Principle of fractures. (IV): Fracture in children & joint injuries 6.Injuries of the shoulder, upper arm and elbow (I).		
3	3	7.Injuries of the shoulder, upper arm and elbow (II). 8.Injuries of the forearm and wrist.(I) 9.Injuries of the forearm and wrist (II).		
4	3	10.Hand injuries. 11.Injuries of the spine. 12.Injuries of the pelvis.		
5	3	13.Injuries of the hip and femur (I) 14.Injuries of the hip and femur (II) 15.Injuries of the knee and leg.		
6	3	16.Injuries of the ankle and foot.		

		General Orthopedics 1.Orthopedic diagnosis. 2.Infection. (I)		
7	3	3.Infection. (II) 4.Rheumatic disorders. 5.Crystal deposition disorders.		
8	3	6.Osteoarthritis. 7.Osteonecrosis and related disorders 8.Metabolic and endocrine disorders & genetic disorder		
9	3	9.Bone tumor (I).		
10	3	10.Bone tumor (II) 11.Peripheral nerve injuries & neuromuscular disorder 12.Orthopedic operations		
11	3	**Regional Orthopedic:** 1.Shoulder and pectoral girdle disorders. 2.Elbow & forearm disorders. 3.Wrist disorders		
12	3	4.Hand disorders. 5.Hand infection. 6.Hip disorders		
13	3	7.Knee disorder & knee swelling. 8.Ankle & foot disorder. 9.Cervical disorders & Torticolis		
14	3	10.Spine disorder: disc prolapsed, Spondylolisthesis.		

		11.Ankylosing spondylitis 12.Soft tissue tumors		
15	3	Overview		

11.Course Evaluation	
Multiple choice questions quizzes	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Apley's System of Orthopedics and Fractures. Ninth Edition
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Gynecology	
2. Course Code:	
Gyne-3	
3. Semester / Year:	
1st semester / 5th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
5th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
30	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**The course describes the basic knowledges of gynecology 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 diseases including the emergent conditions, in a way to partici**

	in optimizing the medical services to the society
9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the teachers. Case based learning to solve patient problem Small group teaching
10. Course Structure	

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1st	2hrs.	Anatomy And Embryology of female genital tract	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture
2nd	2hrs.	Normal , Abnormal Sexual developments &Normal Puberty	//	//
3rd	2hrs.	Abnormal Puberty& Normal Menstrual Cycle	//	//
4th	2hrs.	Abnormal Vaginal Bleeding & Amenorrhea I	//	//
5th	2hrs.	Amenorrhea II Oligomenorrhea And Hyperandrogenic Disorder	//	//
6th	2hrs.	Dysmenorrhea Genital Infection In Gynecology I	//	//
7th	2hrs.	Genital Infection In Gynecology II & III	//	//
8th	2hrs.	Infertility &Assisted Reproduction I & II	//	//
9th	2hrs.	Problem In Early Pregnancy/Ectopic Pregnancy &Miscarriage	//	//
10th	2hrs.	Gestational trophoplastic Disease &Benign Disease Of Uterus And Cervix	//	//
11th	2hrs.	Endometriosis & Adenomyosis	//	//
12th	2hrs.	Malignant Disease Of The Uterus & Benign Disease Of The Ovary	//	//
13th	2hrs.	Malignant Disease Of The Ovary	//	//

14th	2hrs.	Premalignant & Malignant Disease Of The Cervix	//	//
15th	2hrs.	& Menopause Sex hormone therapy	//	//

11.Course Evaluation	
The most appropriate answer (case scenarios) quizzes	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	•Dewhurst's Textbook of Obstetrics & Gynecolo 9th Edition By Keith Edmond •Gynecology By Ten Teachers, 21th Edition
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

5th year / 2nd semester

Course Description Form

1. Course Name:
Rheumatology
2. Course Code:
3. Semester / Year:
2nd semester / 5th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
5th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
15
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	•Understanding main joints, muscle and bone disorders. •Recognizing rheumatological Disorders. •Diagnostic Skills : CBC and metabolic panel changes in multiple rheumatological disord synovial fluid analysis and princple of CTD screen.

9. Teaching and Learning Strategies	
Strategy	Lectures directly informed to the students from the teachers. Case based learning to solve patient problem Small group teaching

10. Course Structure

Week	Hours	ILOs	Unit / Module or Topic Title
First week	1		Introduction to rheumatology
Second Week	2		Presenting problems in musculoskeletal disease
Third Week	3		Osteoarthritis
Fourth Week	4		Crystal arthropathy
Fifth Week	5		Rheumatoid arthritis and sjogren syndrome
Sixth Week	6		SERONEGATIVE SPONDYLOARTHRITIS (SPA) Part 1
Seventh Week	7		SPA Part 2
Eighth Week	8		Midterm Examination

Ninth Week	9		SLE and APS
Tenth Week	10		Vasculitis
Eleventh Week	11		Bahcets syndrome & Systemic sclerosis
Twelfth Week	12		MCTD and myositis
Thirteenth Week	13		Osteoporosis
Fourteenth Week	14		Osteomalacia and pagets disease
Fifteenth Week	15		Approach to child with joint pain

11.Course Evaluation	
The most appropriate answer (case scenarios) quizzes	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Core Textbook Course Materials
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Otorhinolaryngology	
2. Course Code:	
3. Semester / Year:	
2nd semester / 5th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
5th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
30	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**The course describes the basic knowledges of Otorhinolaryngology to the med**

	students in order to build the clinical knowledge and clinical skills in the next years in diagnosis and treatment of the different diseases including , nose ,ear and throat diseases and emergent conditions, in a way to participate in optimizing the medical services to the society

9. Teaching and Learning Strategies

Strategy	Interactive lectures Clinical based case scenario Small groups learning to solve complex medical or surgical problem

10. Course Structure

Week	Hours	Unit/Module or Topic Title		Teaching Method	Assessment Method
1	2	1st hour	Surgical anatomy and applied physiology of the nose paranasal sinses.	Theoretical lectures using projectors and smart board + practical experiments and skills	uestions at the end of the theoretical lecture, and discussion with students about the lecture .
		2nd hour	ongenital malformation and injuries of the nose and paranasal sinuses. Infection of the nose and paranasal sinuses and their management		
2	2	1st hour	Congenital malformation and injuries of the nose and paranasal sinuses.		
		2nd hour	Infection of the nose and paranasal sinuses and their management		
3	2	1st hour	Nasal allergy and vasomotor rhinitis. Epistaxis.		
		2nd hour	Tumors of the nose and paranasal sinuses.		
4	2	1st hour	Surgical anatomy and applied physiology of pharynx and esophagus.		
		2nd hour	Inflammation of the mouth and pharynx		
5	2	1st hour	Ulcers. Tonsillitis and Adenoid hyper atrophy.		
		2nd hour	Tonsillitis and Adenoidectomy,		

			indications and complications		
6	2	1st hour	Tumors of the nasopharynx and hypopharynx		
		2nd hour	Dyspagia. Surgical anatomy and applied of the Larynx.		
7	2	1st hour	Congenital malformations and injuries of the Larynx.		
		2nd hour	Acute and chronic Laryngitis.		
8		***Midterm Examination***			
9	2	1st hour	Hoarseness &Stridor.		
		2nd hour	Tumors of the Larynx.		
10	2	1st hour	Lump in the Neck.		
		2nd hour	Surgical anatomy of the ear –labyrinth.		
11	2	1st hour	Physiology of hearing and vestibular system.		
		2nd hour	Hearing impairment and audio logical assessment.		
12	2	1st hour	Vertigo and neurological assessment		
		2nd hour	Congenital malformation, trauma and neoplasm of the ear.		
13	2	1st hour	Otitis media Acute, chronic and secretory.		
		2nd hour	Complications of the middle ear infections		
14	2	1st hour	Principles of middle ear surgery.		
		2nd hour	Otosclerosis.		
15	2	1st hour	B.P.P.V Meniere's disease.		

		2nd hour	Vestibular neuritis		

11.Course Evaluation	
Written Exams: Multiple-choice questions (MCQs), short-answer questions (SAQs) Clinical Exams: OSCE (Objective Structured Clinical Examination), bedside patient assessments Practical Skills Assessment: Use of otoscope, rhinoscope, laryngoscope, and endoscopic techniques	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1. Scott-Brown's Otorhinolaryngology: Head and Neck Surgery 2.Cummings Otolaryngology: Head and N Surgery
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
PEADIATRIC CARDIAC &HEMATOLOGY	
2. Course Code:	
3. Semester / Year:	
2nd semester / 5th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
5th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
15	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**The course describes the basic knowledges of pediatric to the medical studer in order to build the clinical knowledge and clinical skills in the next years in diagnosis and treatment of the different diseases including the emergent conditions, in a way to participate in optimizing the medical services to the society**
9. Teaching and Learning Strategies	
Strategy	*Pediatric Cardiac Diseases*: Focus on understanding congenital and acquired heart diseases, diagnostic tools, surgical and medical management, and compassionate care for children and families. *Pediatric Hematology Diseases*: Emphasize knowledge of hematologic disord diagnostic testing, management of anemia, bleeding disorders, and malignancies, a the importance of patient and family education.
10. Course Structure	

11. Course Structure					
Week	**Hours**	**ILOs**	**Unit/Module or Topic Title**	**Teaching Method**	**Assessment Method**
1st	1hrs.		Hemoglobins in the Fetus and Neonate	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture
2nd	1hrs.		Iron deficiency anemia	//	//
3rd	1hrs.		Hemolytic Anemias	//	//
4th	1hrs.		THALASSEMIAS alfa and beta	//	//
5th	1hrs.		Sickle cell anemia	//	//
6th	1hrs.		HEMORRHAGIC DISORDERS	//	//
7th	1hrs.		LEUKEMIA	//	//
8th	1hrs.		NEUROBLASTOMA	//	//
9th	1hrs.		Introduction of cong. Heart disease	//	//
10th	1hrs.		Cyanotic congenital heart disease	//	//
11th	1hrs.		**Midterm Examination**	//	//
12th	1hrs.		a Cyanotic congenital heart disease	//	//
13th	1hrs.		RHEUMATIC FEVER	//	//
14th	1hrs.		Infective endocarditis	//	//
15th	1hrs.		Ventricular septal defect	//	//

11.Course Evaluation	
Multiple choice questions , the most appropriate answer (case scenarios) quizzes	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	NELSON TEXTBOOK PEDIATRICS (2016)
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Gynecology
2. Course Code:
3. Semester / Year:
2nd semester / 5th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
5th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
15
7. Course administrator's name (mention all, if more than one name)
Name:
8. Course Objectives

Course Objectives	**The course describes the basic knowledges of gynecology 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 diseases including the emerge conditions, in a way to participate in optimizing the medical services to the society**

9. Teaching and Learning Strategies

Strategy	Interactive lectures Clinical based case scenario Small groups learning to solve complex medical or surgical problems

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1st	1hr	Disease Of Vulva	Theoretical lectures using projectors and smart board + practical experiments and skills	Oral questions at the end of the theoretical lecture, and discussion with students about the lecture
2nd	1hrs.	Disease Of Vagina	//	//
3rd	1hrs.	Urogynecology I	//	//
4th	1hrs.	Urogynecology II	//	//
5th	1hrs.	Genital Organ Prolapse Part I	//	//
6th	1hrs.	Genital Organ Prolapse Part II	//	//
7th	1hrs.	Contraception I	//	//
8th	1hrs.	Contraception II	//	//
9th	1hrs.	Common Gynecological Procedure (hysteroscopy &laparoscopy)	//	//
10th	1hrs.	Acute Pelvic Pain	//	//
11th	1hrs.	Chronic pelvic pain	//	//
12th	1hrs.	Premenstrual Syndrome	//	//
13th	1hrs.	Endometrial hyperplasia	//	//
14th	1hrs.	Hirsutism &virilization	//	//
15th	1hrs.	Congenital abnormalities of genital tract	//	//

11.Course Evaluation

Multiple choice questions the most appropriate answer (case scenarios)
quizzes

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	•Dewhurst's Textbook of Obstetrics Gynaecology, 9th Edition By Keith Edmond •Gynecology By Ten Teachers, 21th Edition
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Surgical specialties and surgical emergency	
2. Course Code:	
3. Semester / Year:	
2nd semester / 5th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
5th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
30	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**The course is designed to enable the student to:** **1.Will be oriented about variable surgical emergencies, their management, and complication.** **2.How to deal with traumatized patients** **Will be oriented about variable surgical specialties such as pediatrics surgery ,faciomaxillary surgery ,plastic surgery & anesthesia**
9. Teaching and Learning Strategies	
Strategy	Interactive lectures Clinical based case scenario Small groups learning to solve complex medical or surgical problems
10. Course Structure	

Date	Theory Title	Specialty
1st Week	1. Oral Cavity & The Tongue 2. Salivary Glands	Head & Neck
2nd Week	3. Neck Mass 4. Cervical Lymphadenopthy	
3rd Week	5. Investigation Of Breast Disease. 6. Breast Anomalies And Inflammatory Diseases	Breast Surgery
4th Week	7. Benign Breast Tumours 8. Management Of Breast Cancer	
5th Week	9. Principles Of Anaesthesia, Types Of Anesthesia 10. Local & Regional Anaesthesia, Mode Of Action	Anesthesiology
6th Week	11. GA: Pre-Medication, Induction, Maintenance & Recovery 12. Monitoring Tools, End Tracheal Intubation , Regional Anesthesia Indications & Contraindications	
7th Week	13. Recovery Room, Post Operative Care , Post Operative Complications 14. Intensive Care Unit, Pediatric Anesthesia	
8th Week	15. Burn Injuries 16. Pressure Sore, Skin Graft & Flaps	Plastic Surgery
9th Week	17. The Aetiology And Classification Of Cleft Lip And Palate 18. The Principles Of Reconstruction Of Cleft Lip And Palate	
10th Week	**Midterm Examination**	Pediatrics Surgery
11th Week	19. Principles & Perioperative Care In Paediatric Surgery 20. Inguinoscrotal Disorders	
12th Week	21. Paediatric Urology 22. Pediatric GIT Paediatric Disorders	

13th Week	23. Anorectal Region Disorders And Congenital Anomalies 24. Congenital Malformations Of Respiratory System	
14th Week	Surgical emergencies	Surgical emergency
15th Week	Surgical emergencies	

11. Course Evaluation	
Multiple choice questions the most appropriate answer (case scenarios) quizzes	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Baily and Love's Textbook / Short Practice Surgery
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
dermatology
2. Course Code:
3. Semester / Year:
2nd semester / 5th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
5th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
30
7. Course administrator's name (mention all, if more than one name)
Name:
8. Course Objectives

Course Objectives	**The aim of the dermatology course is to equip medical students with the fundamental knowledge and clinical skills necessary to recognize, diagnose, a manage common dermatological conditions. This includes:**

	1.Understanding Skin Anatomy and Physiology. 2.Recognizing Common Skin Diseases: clinical presentations of dermatologica disorders & differentiating between benign and malignant skin lesions. 3.Developing Diagnostic Skills.
9. Teaching and Learning Strategies	
Strategy	•Lectures: Covering core dermatology topics, delivered by specialists. •Case-Based Learning (CBL): Discussion of real-life clinical cases. • Problem-Based Learning (PBL): Small-group sessions focusing on diagnostic reason
10. Course Structure	

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	1. Functional Anatomy & Physiology of skin. 2. History & Examination of Skin.		
2	2	3. Terminology in skin diseases. 4. Investigations of Skin Diseases.		
3	2	5. Presenting problems in skin diseases I 6. Presenting problems in skin diseases II.		
4	2	7. Dermatologic therapeutics I 8. Dermatologic therapeutics II		
5	2	9. Common skin infections and infestations I 10. Common skin infections and infestations II		
6	2	11. Sexually transmitted diseases I 12. Sexually transmitted diseases II		
7	2	13. Acne and rosacea. 14. Eczemas.		
8	2	Midterm Exam		
9	2	15. Psoriasis and other erythematous scaly eruptions I 16. Psoriasis and other erythematous scaly eruptions II		
10	2	17. Lichen planus and lichenoid eruptions. 18. Lichen planus and lichenoid eruptions.		
11	2	19. Urticaria. 20. Bullous diseases.		
12	2	21. Pigmentation disorders. 22. Drugs & drug reactions		
13	2	23. Hair Disorders. 24. Nail Disorders.		
14	2	25. Skin Tumors 1. 26. Skin Tumors 2.		
15	2	27. Skin in systemic diseases 1. 28. Skin in systemic diseases 1.		

11. Course Evaluation

- MCQs/Quizzes: Periodic short tests to assess theoretical knowledge.
- Multiple-choice and short-answer questions on dermatological diseases and treatments.

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	•Fitzpatrick's Dermatology in General Medicin Klaus Wolff et al. •Rook's Textbook of Dermatology – Christop Griffiths et al. •Andrews' Diseases of the Skin: Clin Dermatology – William D. James et al.
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

١.المؤسسة التعليمية	جامعة الفلوجة – كلية الطب
٢.القسم العلمي/المركز	فرع الباطنية
٣.اسم /رمز المقرر	الأخلاق الطبية
٤.اشكال الحضور المتاحة	حضوري
٥.الفصل/السنة	2023-2024
٦.عدد الساعات الدراسية (الكلي)	١٥
٧.تاريخ اعداد هذا الوصف	11/5/2025
٨.أهداف المقرر	
١) **مفهوم الأخلاقيات الطبية :**تعريفها، أهميتها، وتأثيرها على الممارسة المهنية.	
٢) **الصفات الأخلاقية للطبيب :**القيم المطلوبة لضمان ثقة المرضى وجودة الرعاية.	
٣) **تاريخ أخلاقيات الطب :**تطورها عبر الحضارات ودور الإسلام في ترسيخها.	
٤) **مسؤوليات الطبيب :**تجاه المرضى والمجتمع، وأخلاقيات التقارير الطبية والشهادات.	
٥) **السلوكيات الطبية :**تنظيم علاقة الطبيب بزملائه والمجتمع، وآداب الاستشارات.	
٦) **المسؤولية الطبية :**تأثيرها على التشخيص والعلاج، وأخلاقيات الممارسة المهنية.	
٧) **الأخلاقيات القانونية :**الإجهاض، نقل الأعضاء، واحترام جثة الميت.	
٨) **القوانين الطبية :**قوانين مزاولة المهنة، تسجيل الولادات والوفيات، والشهادة أمام القضاء.	
٩) **أخلاقيات البحث الطبي :**الضوابط الأخلاقية في التجارب السريرية وأبحاث الوراثة.	
١٠) **التعامل مع المرضى :**تحسين التواصل واتخاذ القرارات الطبية بأخلاقيات مهنية.	
١١) **سرية المعلومات :**أهمية السرية الطبية وضوابط الإفشاء عند الضرورة.	
١٢) **أخلاقيات التخصصات الطبية :**الجراحة، الأمراض النفسية، وطب النساء والتوليد.	
١٣) **الأخطاء الطبية :**أسبابها، تجنبها، والمسؤوليات القانونية المرتبطة بها.	
١٤) **القسم الطبي :**دراسة قسم أبقراط وأثره في تعزيز أخلاقيات المهنة.	

١٥)مواكبة التطورات :التزام الطبيب بالأخلاقيات عند التعامل مع التطورات الطبية.

١٠.بنية المقرر

الاسبوع	ا لساعات	مخرجات التعلم المطلوبة	اسم الوحدة /الموضوع	طريقة التعليم	طريقة التقييم
	1	١. تعريف الأخلاقيات الطبية وأثرها على الممارسة المهنية. ٢. إبراز الصفات المطلوبة لطالب الطب والطبيب. ٣. دراسة القيم الأخلاقية التي تضمن ثقة المرضى وجودة الرعاية الصحية.	**مفهوم الأخلاقيات الطبية وأهميتها**	محاضرات	امتحان يومي
	1	١. معرفة دور الحضارة العربية في تطوير الطب وأخلاقياته. ٢. معرفة أهم الإنجازات الطبية والعلمية التي ساهم بها العلماء العرب. ٣. معرفة المبادئ الأخلاقية التي اتبعها الأطباء العرب وتأثيرها على الطب الحديث.	**تأريخ الطب وأخلاقياته في الحضارة العربية**	محاضرات	نقاش
	1	١. فهم القواعد الأساسية لمزاولة المهنة وأخلاقياتها. ٢. توضيح مسؤوليات الطبيب تجاه المرضى والمجتمع. ٣. دراسة أخلاقيات الإعلان الطبي، التقارير الطبية، وشهادات الوفاة. ٤. توضيح العلاقة بين الطبيب والقضاء والشرطة في القضايا العدلية.	**مهنة الطب والمسؤوليات المهنية**	محاضرات	امتحان يومي
	1	١. تنظيم علاقة الطبيب بزملائه والمجتمع. ٢. مناقشة آداب الاستشارات الطبية والتعاون بين الأطباء.	**السلوكيات الطبية وعلاقات الطبيب**	محاضرات ومناقشات	امتحان يومي
	1	١. تحليل مفهوم المسؤولية الطبية وأثرها على التشخيص والعلاج. ٢. مناقشة القضايا الأخلاقية مثل الموت الرحيم والإضراب عن الطعام. ٣. مواكبة التطورات الطبية وتجنب الأخطاء المهنية.	**المسؤولية الطبية وأخلاقيات الممارسة**	محاضرات	نقاش

	1	معرفة الأخلاقيات القانونية المتعلقة بالإجهاض، نقل الأعضاء، واحترام جثة الميت.	**العلاقة بين الطبيب المعالج والطبيب العدلي**	محاضرات	امتحان مفاجئ
	1	التعرف على قوانين نقابة الأطباء، تسجيل الولادات والوفيات، والشهادة أمام المحاكم.	**القوانين المنظمة لمهنة الطب**	محاضرات	
	1	١. معرفة الضوابط الأخلاقية في البحوث الطبية والتجارب على الإنسان. ٢. معرفة أخلاقيات الوراثة الطبية والأخلاقيات البيوطبية.	**أخلاقيات البحث الطبي والتجارب السريرية**	محاضرات	نقاش
	1	١. تعزيز التواصل الإيجابي بين الطبيب والمريض. ٢. فهم القيم الأخلاقية في اتخاذ القرارات الطبية.	**:أخلاقيات التعامل مع المرضى**	محاضرات	نقاش
0	1	معرفة أهمية السرية الطبية ومبررات إفشاء السر الطبي	**سرية المعلومات الطبية**	محاضرات	نقاش
1	1	١. دراسة الأخلاقيات الخاصة بالجراحة، الفحوص الشعاعية، والأمراض النفسية. ٢. تحليل القضايا الأخلاقية في طب النساء والتوليد.	**الجوانب الأخلاقية في التخصصات الطبية المختلفة**	محاضرات	نقاش
2	1	١. التعرف على أسباب الأخطاء الطبية وكيفية تجنبها. ٢. دراسة الجوانب القانونية والأخلاقية المتعلقة بالممارسات الطبية.	**الأخطاء الطبية والمسؤوليات القانونية**	محاضرات	امتحان يومي
3	1	١. توضيح أهمية الانتخابات المهنية للأطباء في تطوير القطاع الصحي. ٢. تسليط الضوء على دور الأطباء في المجالس والنقابات الطبية.	**الأطباء والانتخابات المهنية**	محاضرات	نقاش
3	1	١. التعرف على الواجبات المهنية والأخلاقية للطبيب. ٢. فهم أهمية العلاقة بين الطبيب والمريض وأثرها على جودة الرعاية الصحية.	**واجبات الطبيب وفن التعامل مع المريض**	محاضرات	نقاش
4	1	١. التعرف على المبادئ الأساسية للجراحة والقواعد العامة أثناء العمليات. ٢. فهم أهمية التعقيم وتقنيات الجراحة الآمنة. ٣. إدراك مسؤوليات الجراح وحقوق المرضى وفقًا لأخلاقيات المهنة. ٤. معرفة القوانين والتشريعات التي تحكم الممارسة الجراحية. ٥. مناقشة الحالات الأخلاقية والتحديات التي يواجهها الجراحون	**القواعد الجراحية وأخلاقيات مهنة الطب**	محاضرات + نقاش	نقاش
5	1	١. دراسة قسم أبقراط وأثره على الممارسة الطبية. ٢. ترسيخ القيم الأخلاقية في السلوك المهني للطبيب	**القسم الطبي وأخلاقيات المهنة**	محاضرات	امتحان

١١.المر اجع والمصادر	
الكتب المقررة المطلوبة	**Medical Ethics: Principles and Values** **(الأخلاق الطبية: مبادئ وقيم)** للعالم جيمس إلين
المراجع الرئيسية	**الأخلاقيات الطبية في العالم المعاصر للعالم ماري كارتر**
الكتب والمراجع التي يوصى بها	**عبد الله النمري (أخلاقيات الطب في الفكر الإسلامي)** د.
ب- المراجع الالكترونية	تقدم المنظمة إرشادات عالمية حول الأخلاقيات الطبية، بما في ذلك إرشادات **:(WHO) منظمة الصحة العالمية** .للباحثين والأطباء حول كيفية التعامل مع القضايا الأخلاقية في الطب **:(**The National Bioethics Advisory Commission**)اللجنة الوطنية الأمريكية للأخلاقيات البيولوجية** تقدم هذه اللجنة أبحاثًا وتقارير تتناول الجوانب الأخلاقية في الطب الحديث، بما في ذلك أخلاقيات الأبحاث الطبية .والعلاج الجيني

Clinical

1. Course Name:	
Clinical psychiatry	
2. Course Code:	
3. Semester / Year:	
1st semester / 5th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
5th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
45	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**It allows the candidate to be a good educational source in his university or community, have communication skills, team work concept, take decisions, an manage information, oriented with community and environmental development always takes the moral standards and the professional ethics.**
9. Teaching and Learning Strategies	
Strategy	Direct interview with the patients and explanation
10. Course Structure	

Session 1	**Introduction** 1.Assessment of clinical expertise (ACE) 2.Mini-assessed clinical encounter (mini-ACE) 3.Case-based discussion (CbD) 4.Case presentation (CP) 5.Direct observation of procedural skills (DOPS)
Session 2	**History taking and mental state examination** How to take a history
Session 3	**Physical examination** 1.Aims of routine physical examination 2.General examination 3.Specific system examinations
Session 4	**Diagnosis and differential diagnoses** 1.Diagnosis 2.Differential diagnosis
Session 5	**Etiological formulation** 1.Commonly identified etiological factors 2.Schizophrenia 3.Depression 4.Mania 5.Anorexia nervosa 6.Alcoholism 7.post-traumatic stress disorder 8.Alzheimer's dementia 9.Vascular dementia
Session 6	**Investigations** 1.Physical investigations 2.Psychological investigations 3.Social investigations
Session 7	**Management plan** 1.Immediate/short-term management 2.Long-term management 3.Schizophrenia 4.Depression 5.Bipolar affective disorder 6.Alcohol misuse and dependence 7.Opioid misuse and dependence 8.Old age (psychosis, depression and dementia) 9.Obsessive–compulsive disorder 10.anxiety disorder and phobias 11.post-traumatic stress disorder 12.eating disorders – anorexia, and bulimia nervosa 13.borderline personality disorder
Session 8	**Prognosis** 1.Schizophrenia 2.schizoaffective disorder 3.Mood disorders 4.Drug and alcohol misuse

	5.Obsessive–compulsive disorder 6.eating disorders 7.Alzheimer's dementia
Session 9	**Tasks for mini assessed clinical encounters (mini-ACEs)** 1.Eliciting symptoms of depression and suicidality 2.Eliciting manic/hypomanic symptoms 3.Eliciting history of hallucinations 4.Eliciting details of delusions and abnormal experiences 5.Assessing first rank symptoms of schizophrenia 6.Eliciting alcohol history
Session 10	1.Assessing complications of alcohol misuse and assessing motivation 2.Eliciting illicit drug history 3.Eliciting history of anxiety symptoms, panic attacks and phobias 4.Eliciting details of obsessive–compulsive symptoms 5.Eliciting post-traumatic stress disorder history 6.Eliciting eating disorder history
Session 11	1.Assessing insight 2.Eliciting history of premorbid personality
Session 12	1.Frontal lobe function testing 2.Suicide risk assessment 3.Violence-risk assessment
Session 13	**Dementia – history taking (collateral information)** 1.Mini mental state examination 2.Detailed cognitive examination
Session 14	**Direct observation of procedural skills (DOPS)** 1.Electroconvulsive therapy administration 2.Cardiopulmonary resuscitation (basic life support) 3.Extrapyramidal side effects – physical examination
Session 15	**Sub-specialties** 1.Child psychiatry 2.Learning disability

11.Course Evaluation	
Oral exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Pocket Kaplan of psychiatry text book
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Pediatric surgery
2. Course Code:
3. Semester / Year:
2nd semester / 5th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
5th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
45
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**The course describes the basic knowledge of pediatric surgical cases to the medical students in order to build the clinical knowledge and clinical skills in t next years in diagnosis and treatment of the different surgical diseases in children, in a way to participate in optimizing the medical services to the society.**

9. Teaching and Learning Strategies	
Strategy	The course is designed to enable the student to: 1.Will be oriented about variable surgical emergencies, their management, a complication. 2.How to deal with surgical cases in child patients. 3.Will be oriented about congenital and acquired surgical case.

10. Course Structure

11. Course Structure	
Session 1	Introduction to pediatric surgery (Definition of pediatric surgery, Requirements for pediatric surgical services, Anatomical differences of pediatric patient from adult patient, calculation of fluid requirement (amount & rate), thermoregulation, and Pain control).
Session 2	Esophageal disease (gastroesophageal disease, achalasia, radiological investigation of esophagus).
Session 3	Esophageal disease (Tracheo-oesophageal Fistula diagnosis

	and management).
Session 4	Thoracic surgical disease (Congenital Diaphragmatic Hernia" diagnosis and management").
Session 5	Stomach disease (vomiting (bilious or non-bilious), pyloric stenosis).
Session 6	Neonatal intestinal obstruction (Hirschsprung disease and its management)
Session 7	Neonatal intestinal obstruction meconium Ileus and its management, Duodenal obstruction, jejunoileal atresia and stenosis
Session 8	Intussusception (pathophysiology, Primary and secondary Intussusception, clinical presentation, diagnosis, management (operative or non-operative))
Session 9	Inguinoscrotal surgical disease (inguinal hernia, hydrocele, undescended testes).
Session 10	Disease of scrotum (acute scrotum, testicular torsion, epidydemo_orchitis)
Session 11	Congenital and anorectal malformations (imperforated anus in male and female)
Session 12	acquired anorectal malformations anal fissure, fistula in ano, perianal and perirectal abscess and rectal prolapse.
Session 13	Clinical case presentation and how to deal the surgical cases
Session 14	Radiological finding view on data show like erect abdomen x-ray finding, upper and lower contrast study.
Session 15	Intraoperative finding through the presence of student the different operation in operative room

11.Course Evaluation	
Multiple choice questions quizzes	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1.Baily and Love's Textbook / Short Practice Surgery 2.Holcomb and Ashcraft pediatric surgery
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Urology
2. Course Code:
3. Semester / Year:
2nd semester / 5th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
5th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
45
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**The course describes the basic clinical knowledges of urology 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 diseases including , stone diseases , urinary tract infections and emergent conditions, in a way to partici in optimizing the medical services to the society**

9. Teaching and Learning Strategies	
Strategy	Clinical sessions in urology outpatient clinic . Case based learning to solve patient problem Small group teaching

10. Course Structure

11. Course Structure: Clinical training in urology
Session 1: Introduction History taking in urology Physical examination in urology Investigations (laboratory, imaging, and others)
Session 2: Urinary stone diseases: presentation, differential diagnosis, investigations, treatment options, complications Renal colic: management
Session 3: Uroradiology: imaging studies in urology (ultrasound-KUB-IVU-CT- scan)

Session 4: Urinary tract infections Pyelonephritis Pyonephrosis Renal abscess Cystitis Urethritis Specific infections of urinary tract (TB. Belharziasis)
Session 5: Upper urinary tract injuries (blunt and penetrating): management Lower urinary tract injuries: bladder and urethral injuries management
Session 6: Hematuria: Definition, types, causes Renal tumors: management: management: etiology presentation, differential diagnosis, investigations, staging, treatment options, complications
Session 7: Bladder tumors: management: etiology presentation, differential diagnosis, investigations, staging, treatment options, complications
Session 8: Scrotal pathologies Painful: torsion of testis, epididymoorchitis, scrotal traumas, Forneirs gangrene Painless scrotal pathologies: hydrocele, varicocele, epididymal cyst, spermatocele, testicular tumors, inguinal hernia
Session 9: Bladder outlet obstruction benign prostatic hyperplasia prostatic carcinoma digital rectal examination urethral stricture
Session 10: Foleys catheters: definition, types, indications, contraindications, complication

11.Course Evaluation	
Clinical oral exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1.Baily and Love's Textbook / Short Practice Surgery 2.Smith's General Urology 3.Harrison's Principles of Internal Medicine 4.Davidson's Principles and Practice of Medicin
Main references (sources)	
Recommended books and references	

(scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:
Clinical neurology/neurosurgery
2. Course Code:
3. Semester / Year:
2nd semester / 5th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
5th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
45
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**The aim of a clinical course for undergraduate medical students with the listed content is to provide a comprehensive foundation in clinical neuroscience, with focus on the diagnosis, management, and understanding of common neurolog disorders and related clinical skills. The course is designed to equip students the knowledge and practical skills necessary to evaluate and manage patients neurological conditions, interpret diagnostic imaging, and understand basic neurosurgical procedures.**

9. Teaching and Learning Strategies	
Strategy	Clinical Rotations: Hands-on experience in neurology and neurosurgery wa outpatient clinics, and emergency departments. Case-Based Learning: Discussion of real or simulated cases to enhance diagnostic management skills.

10. Course Structure	

Week	Unit/Module or Topic Title
1	Clinical anatomy
2	Clinical examination
3	approach to Headache Disorders
	Cerebrovascular Disorders

	Epilepsy Movement Disorder Neuromuscular Disorders
	Dizziness and Vertigo
	Glasco coma scale
	Reading CT scan
	Reading MRI
	Craniotomy set
	Ventriculo and lumbo peritoneal shunt

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

1. Course Name:
Clinical Thoracic Surgery
2. Course Code:
3. Semester / Year:
2nd semester / 5th year
4. Description Preparation Date:
11/5/2025
5. Available Attendance Forms:
5th stage students
6. Number of Credit Hours (Total) / Number of Units (Total) :
45
7. Course administrator's name (mention all, if more than one name)
Name:

8. Course Objectives	
Course Objectives	**The course describes the basic clinical knowledge of thoracic surgery to the medical students in order to build the clinical knowledge and clinical skills in t next years in diagnosis and treatment of the different diseases including , ches vascular and cardiac surgical diseases.**

9. Teaching and Learning Strategies	
Strategy	Clinical sessions in thoracic outpatient clinic . Case based learning to solve patient problem Small group teaching

10. Course Structure
Clinical training in thoracic surgery
Session 1: Introduction History taking in thoracic surgery. Physical examination in thoracic surgery. Investigations and breathing assessment (laboratory, imaging, and others) **Session 2:** Congenital anomalies : presentation, differential diagnosis, investigations, treatment options, complications **Session 3:** pneumothorax including tension pneumothorax. **Session 4:** pleural effusion and hemothorax. **Session 5:** empyema and chylothorax **Session 6:** bronchiectasis **Session 7:** lung abscess. **Session 8:** surgical aspect of pulmonary TB. **Session 9:** pericardial effusion and tamponade.

Session 10 : chest trauma **Session 11** : bronchogenic carcinoma approach. **Session 12 :**surgical treatment of lung cancer. **Session 13 :** DVT and its complication **Session 14 :** acute arterial occlusion **Session 15:** chronic vascular insufficiency.

11.Course Evaluation	
Clinical oral exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Short practice of surgery by Baily and Love
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Clinical orthopedics and fractures	
2. Course Code:	
3. Semester / Year:	
2nd semester / 5th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
5th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
45	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**The course describes the basic clinical knowledge of Clinical orthopedics and fractures 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 disea**

	including , emergency orthopedics and fractures conditions in a way to participate in optimizing the medical services to the society
9. Teaching and Learning Strategies	
Strategy	Clinical sessions in outpatient orthopedics and fractures clinic . Case based learning to solve patient problem Small group teaching
10. Course Structure	

Clinical training in orthopedics and fractures
Session 1: Introduction History taking Physical examination Investigations (laboratory, imaging, and others)
Session 2: Different conditions in orthopedics and fractures present in out patient clinic: presentation, differential diagnosis, investigations, treatment options, complications
Session3: Hand skill : include fractures management ; reduction of fractures, cast applications, wound suturing and management,
Session 4: Orthopedic cases management such as; DDH, and other orthopedic hip problems
Session 5: Knees problems management such as: knee sports injuries, patellar over load syndrome, rheumatoid and osteoarthritis., and tumors.
Session 6: foot problems managements such as: club foot managements, etiology, presentation, differential diagnosis, investigation, treatment options ,and complications,
Session 7: spine problems such as: spinal pain causes, disc prolapsed, spondylosis, spondylolisthesis, retrolisthesis, fractures, infections, tumors, congenital and structural defects.
Session 8: Shoulder problems such as: Fractures, fractures and dislocations, complications associated with managements and congenital abnormalities.
Session 9: Elbow problems such as: fractures, pulled elbow, fractures and dislocations and complications associated with managements
Session10: Wrist and hands problems and management.

11.Course Evaluation	
Clinical oral exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Apley's System of Orthopaedics and Fractures. Ninth Edition.
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Clinical Ophthalmology	
2. Course Code:	
3. Semester / Year:	
2nd semester / 5th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
5th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
45	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**The course describes the basic clinical knowledges of Ophthalmology to the medical students in order to build the clinical knowledge and clinical skills in diagnosis and treatment of the different diseases including ocular diseases and refractive errors.**
9. Teaching and Learning Strategies	
Strategy	•Clinical sessions in the outpatient Eye clinic. •Case based learning to solve patient problem •Small group teaching

10. Course Structure

Clinical training in Ophthalmology	
Session 1	Introduction to Eye clinic equipment and investigation devices used in ophthalmology
Session 2	General ophthalmic examination skills; taking ocular history. Visual acuity testing, slit-lamp examination, and fundoscopy.
Session 3	Refraction session I; Visual acuity assessment, color vision, retinoscopy.
Session 4	Refraction session II; subjective refraction, glasses prescription.
Session 5	Ophthalmic investigation and interpretation; learn to interpret corneal topography, OCT, biometry, perimetry.
Session 6	Cornea and External Disease; learn about anterior segment examination, perform slit-lamp examination, corneal fluorescence staining, and assessment of tear film.
Session 7	Cataract session; exam cataract under slit lamp, learn about type, maturity and morphology of cataract.
Session 8	Glaucoma session; learn about tonometry and IOP measurement, Gonioscopy, perimetry and optic disc assessment
Session 9	Retina session; learn and observe indirect ophthalmoscopy, learns about different retinal pathologies.
Session 10	Ocular motility session; observe and perform motility, detect various type of motility disorders and nerve palsies.
Session 11	Squint session; learn and perform cover/uncover, alternating cover test, observe and examine different types of squint.
Session 12	Oculoplastic session; observe and perform eyelid assessment and measurements, ptosis examination, lacrimal and orbital examination.
Session 13	Uveitis session; examining patients with symptoms of uveitis (e.g., eye redness, pain, floaters).
Session 14	Emergency Ophthalmology session I; Assessing patients with foreign bodies, blunt trauma, penetrating, acute angle-closure glaucoma, or chemical burns.
Session 15	Emergency Ophthalmology session II; Learn about basic and primary approach in managing ocular trauma in emergency room.

11. Course Evaluation

Clinical oral exam & OSCE

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Kanski's Clinical Ophthalmology. A systema approach, Tenth Edition. Clinical Optics. By A.R. Elkington and Helena

	Frank, Third Edition.
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

6th Years
Course Description Form

1. Course Name:	
Clincial medicine	
2. Course Code:	
3. Semester / Year:	
6th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
6th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
360	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**By the end of the course, students should be able to:** **1.Perform comprehensive patient assessments, including history-taking, phys examination, and diagnostic interpretation.** **2.Develop differential diagnoses and formulate appropriate management plans.** **3.Demonstrate proficiency in clinical procedures relevant to their rotations.**
9. Teaching and Learning Strategies	
Strategy	Clinical Rounds & sessions.
10. Course Structure	

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	30 Hr.	Cardiovascular System (CVS)	**Key Topics:** • Hypertension (Essential & Secondary) • Coronary Artery Disease (Angina, Myocardial Infarction) • Heart Failure (Acute & Chronic) • Arrhythmias (Atrial Fibrillation, Ventricular Tachycardia)3 • Valvular Heart Diseases (Mitral, Aortic, Tricuspid, Pulmonary) • Infective Endocarditis • Pericardial Diseases (Pericarditis, Pericardial Effusion) • Congenital Heart Diseases in Adults • Peripheral Vascular Disease • Deep Vein Thrombosis (DVT) & Pulmonary Embolism (PE) • Cardiomyopathies (Dilated, Hypertrophic, Restrictive) **Skills & Procedures:** • ECG Interpretation • Echocardiography Basics	**Clinical Clerkships:** Direct patient care under supervision **Bedside Teaching:** Case discussions, patient rounds **Lectures & Seminars:** Updates on medical advancements **Case-Based Learning (CBL):** Problem-solving discussions	**Clinical Performance:** Supervisor assessments during rotations **Written Exams:** MCQs, short-answer questions (SAQs) **OSCE (Objective Structured Clinical Examination):** Practical skills and case scenarios **Case Presentations:** Individual and group-based presentations **Logbook & Portfolio:** Documenting cases, procedures, and reflections **Final Comprehensive Exam:** Includes written, oral, and clinical components

			• Blood Pressure Measurement & Hypertension Management • Chest Pain Evaluation • ACLS (Advanced Cardiac Life Support)		
2	30 Hr.	Respiratory System (Pulmonology)	**Key Topics:** • Chronic Obstructive Pulmonary Disease (COPD) • Asthma & Acute Exacerbation • Pneumonia (Community-Acquired, Hospital-Acquired) • Tuberculosis (Pulmonary & Extrapulmonary) • Lung Cancer & Screening Guidelines • Interstitial Lung Diseases • Pulmonary Hypertension • Pleural Diseases (Pleural Effusion, Pneumothorax) • Obstructive Sleep Apnea (OSA) • Pulmonary Embolism (PE) **Skills & Procedures:** • Pulmonary Function Test (PFT) Interpretation • Arterial Blood Gas	**Clinical Clerkships:** Direct patient care under supervision **Bedside Teaching:** Case discussions, patient rounds **Lectures & Seminars:** Updates on medical advancements **Case-Based Learning (CBL):** Problem-solving discussions	**Clinical Performance:** Supervisor assessments during rotations **Written Exams:** MCQs, short-answer questions (SAQs) **OSCE (Objective Structured Clinical Examination):** Practical skills and case scenarios **Case Presentations:** Individual and group-based presentations **Logbook & Portfolio:** Documenting cases, procedures, and reflections **Final Comprehensive Exam:** Includes written, oral, and clinical components

			(ABG) Analysis • Chest X-ray Interpretation • Oxygen Therapy & Ventilation Support • Pleural Aspiration		
3	30 Hr.	Gastrointestinal & Hepatobiliary System	**Key Topics:** • Gastroesophageal Reflux Disease (GERD) & Peptic Ulcer Disease • Hepatitis (Viral, Autoimmune, Alcoholic, Drug-Induced) • Liver Cirrhosis & Its Complications (Portal Hypertension, Hepatic Encephalopathy) • Inflammatory Bowel Disease (Crohn's, Ulcerative Colitis) • Irritable Bowel Syndrome (IBS) • Acute & Chronic Pancreatitis • Gastrointestinal Bleeding (Upper & Lower) • Malabsorption Syndromes (Celiac, Tropical Sprue) • Gallbladder Diseases (Cholelithiasis, Cholecystitis) • Colorectal Cancer & Screening	**Clinical Clerkships:** Direct patient care under supervision **Bedside Teaching:** Case discussions, patient rounds **Lectures & Seminars:** Updates on medical advancements **Case-Based Learning (CBL):** Problem-solving discussions	**Clinical Performance:** Supervisor assessments during rotations **Written Exams:** MCQs, short-answer questions (SAQs) **OSCE (Objective Structured Clinical Examination):** Practical skills and case scenarios **Case Presentations:** Individual and group-based presentations **Logbook & Portfolio:** Documenting cases, procedures, and reflections **Final Comprehensive Exam:** Includes written, oral, and clinical components

			Skills & Procedures: • Abdominal Examination • Endoscopy & Colonoscopy Basics • Liver Function Test (LFT) Interpretation • Ascitic Tap Procedure • Managing GI Bleeding		

4	30 Hr.	Neurology	**Key Topics:** • Stroke (Ischemic & Hemorrhagic) • Epilepsy & Seizure Disorders • Parkinson's Disease & Movement Disorders • Multiple Sclerosis (MS) • Headache Syndromes (Migraine, Tension-Type, Cluster Headache) • Meningitis & Encephalitis • Neuropathy (Diabetic, Guillain-Barré Syndrome) • Dementia & Alzheimer's Disease • Spinal Cord Disorders **Skills & Procedures:** • Neurological Examination • CT & MRI Brain Interpretation • Lumbar Puncture Procedure • NIH Stroke Scale Usage	**Clinical Clerkships:** Direct patient care under supervision **Bedside Teaching:** Case discussions, patient rounds **Lectures & Seminars:** Updates on medical advancements **Case-Based Learning (CBL):** Problem-solving discussions	**Clinical Performance:** Supervisor assessments during rotations **Written Exams:** MCQs, short-answer questions (SAQs) **OSCE (Objective Structured Clinical Examination):** Practical skills and case scenarios **Case Presentations:** Individual and group-based presentations **Logbook & Portfolio:** Documenting cases, procedures, and reflections **Final Comprehensive Exam:** Includes written, oral, and clinical components
5	30 Hr.	Endocrinology & Metabolism	**Key Topics:** • Diabetes Mellitus (Type 1 & Type 2) & Complications • Thyroid Disorders	**Clinical Clerkships:** Direct patient care under supervision **Bedside**	**Clinical Performance:** Supervisor assessments during rotations **Written Exams:**

			(Hyperthyroidism, Hypothyroidism, Thyroid Nodule Evaluation) • Adrenal Disorders (Addison's Disease, Cushing's Syndrome) • Pituitary Disorders (Acromegaly, Prolactinoma) • Calcium & Bone Metabolism Disorders (Osteoporosis, Hyperparathyroidism) **Skills & Procedures:** • Diabetic Foot Examination • Blood Glucose Monitoring & Insulin Therapy • Thyroid Function Test (TFT) Interpretation	**Teaching:** Case discussions, patient rounds **Lectures & Seminars:** Updates on medical advancements **Case-Based Learning (CBL):** Problem-solving discussions	MCQs, short-answer questions (SAQs) **OSCE (Objective Structured Clinical Examination):** Practical skills and case scenarios **Case Presentations:** Individual and group-based presentations **Logbook & Portfolio:** Documenting cases, procedures, and reflections **Final Comprehensive Exam:** Includes written, oral, and clinical components
6	30 Hr.	Nephrology & Genitourinary System	**Key Topics:** • Acute Kidney Injury (AKI) & Chronic Kidney Disease (CKD) • Glomerulonephritis • Electrolyte Imbalances (Hyponatremia, Hyperkalemia) • Urinary Tract Infections (UTI) & Pyelonephritis • Nephrotic & Nephritic	**Clinical Clerkships:** Direct patient care under supervision **Bedside Teaching:** Case discussions, patient rounds **Lectures & Seminars:** Updates on medical advancements **Case-Based Learning (CBL):** Problem-solving	**Clinical Performance:** Supervisor assessments during rotations **Written Exams:** MCQs, short-answer questions (SAQs) **OSCE (Objective Structured Clinical Examination):** Practical skills and case scenarios **Case Presentations:** Individual and group-based presentations

			Syndromes • Dialysis & Renal Transplantation Basics **Skills & Procedures:** • Urinalysis Interpretation • Fluid & Electrolyte Management • Foley Catheterization Procedure	discussions	**Logbook & Portfolio:** Documenting cases, procedures, and reflections **Final Comprehensive Exam:** Includes written, oral, and clinical components
7	30 Hr.	Hematology & Oncology	**Key Topics:** • Anemias (Iron Deficiency, Hemolytic, Aplastic) • Leukemias & Lymphomas • Coagulation Disorders (Hemophilia, DIC) • Multiple Myeloma • Blood Transfusion Reactions **Skills & Procedures:** • Bone Marrow Aspiration Basics • Complete Blood Count (CBC) Interpretation • Blood Typing & Crossmatching	**Clinical Clerkships:** Direct patient care under supervision **Bedside Teaching:** Case discussions, patient rounds **Lectures & Seminars:** Updates on medical advancements **Case-Based Learning (CBL):** Problem-solving discussions	**Clinical Performance:** Supervisor assessments during rotations **Written Exams:** MCQs, short-answer questions (SAQs) **OSCE (Objective Structured Clinical Examination):** Practical skills and case scenarios **Case Presentations:** Individual and group-based presentations **Logbook & Portfolio:** Documenting cases, procedures, and reflections **Final Comprehensive Exam:** Includes written, oral, and clinical components
8	30 Hr.	Rheumatology & Autoim	**Key Topics:** • Rheumatoid Arthritis (RA)	**Clinical Clerkships:** Direct patient care under	**Clinical Performance:** Supervisor assessments during

		mune Disorders	• Systemic Lupus Erythematosus (SLE) • Gout & Pseudogout • Vasculitis Syndromes • Scleroderma & Sjögren's Syndrome **Skills & Procedures:** • Joint Aspiration & Synovial Fluid Analysis • Rheumatological Investigations (ANA, RF, Anti-CCP)	supervision **Bedside Teaching:** Case discussions, patient rounds **Lectures & Seminars:** Updates on medical advancements **Case-Based Learning (CBL):** Problem-solving discussions	rotations **Written Exams:** MCQs, short-answer questions (SAQs) **OSCE (Objective Structured Clinical Examination):** Practical skills and case scenarios **Case Presentations:** Individual and group-based presentations **Logbook & Portfolio:** Documenting cases, procedures, and reflections **Final Comprehensive Exam:** Includes written, oral, and clinical components
9	30 Hr.	Infectious Diseases	**Key Topics:** • Sepsis & Septic Shock • HIV/AIDS & Opportunistic Infections • Malaria, Dengue & Tropical Infections • Hospital-Acquired Infections • Antibiotic Stewardship **Skills & Procedures:** • Blood Culture Collection • Antibiotic Selection in Infections	**Clinical Clerkships:** Direct patient care under supervision **Bedside Teaching:** Case discussions, patient rounds **Lectures & Seminars:** Updates on medical advancements **Case-Based Learning (CBL):** Problem-solving discussions	**Clinical Performance:** Supervisor assessments during rotations **Written Exams:** MCQs, short-answer questions (SAQs) **OSCE (Objective Structured Clinical Examination):** Practical skills and case scenarios **Case Presentations:** Individual and group-based presentations **Logbook & Portfolio:** Documenting cases, procedures, and reflections **Final**

					Comprehensive Exam: Includes written, oral, and clinical components
10	30 Hr.	Emergency Medicine & Toxicology	**Key Topics:** • Shock (Hypovolemic, Cardiogenic, Septic, Neurogenic) • Poisoning & Overdose Management (Paracetamol, Organophosphates) • Anaphylaxis & Acute Allergic Reactions • Trauma & Resuscitation • Heat Stroke & Hypothermia **Skills & Procedures:** • Advanced Life Support (ACLS/BLS) • Triage in Emergency Cases	**Clinical Clerkships:** Direct patient care under supervision **Bedside Teaching:** Case discussions, patient rounds **Lectures & Seminars:** Updates on medical advancements **Case-Based Learning (CBL):** Problem-solving discussions	**Clinical Performance:** Supervisor assessments during rotations **Written Exams:** MCQs, short-answer questions (SAQs) **OSCE (Objective Structured Clinical Examination):** Practical skills and case scenarios **Case Presentations:** Individual and group-based presentations **Logbook & Portfolio:** Documenting cases, procedures, and reflections **Final Comprehensive Exam:** Includes written, oral, and clinical components

11. Course Evaluation

Objective Structured Clinical Examination (OSCEs) – Simulated patient encounters to assess clinical skills.
Direct Observation of Procedural Skills (DOPS) – Supervisors assess real-life procedural competency.
Case Presentations & Clinical Rotations – Real patient evaluations and management plans.

Logbooks & Portfolios – Documentation of clinical skills performed. Workplace-Based Assessments (WBA) – Evaluation by mentors in real clinical settings.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Harrison's Principles of Internal Medicine Oxford Handbook of Clinical Medicine
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Clinical surgery	
2. Course Code:	
3. Semester / Year:	
6th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
6th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
420	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**By the end of the course, students should be able to:** **Perform comprehensive patient assessments, including history-taking, physica** **examination, and diagnostic interpretation.** **Develop differential diagnoses and formulate appropriate management plans.** **Demonstrate proficiency in clinical procedures relevant to their rotations.** **Work effectively within multidisciplinary healthcare teams.**
9. Teaching and Learning Strategies	
Strategy	Clinical Rounds & sessions.
10. Course Structure	

Week	Unit/Module or Topic Title	Teaching Method	Assessment Method
15 weeks total 6 hours daily Total : 450 hours	1. Core Surgical Topics *General Surgery* • **Wound Healing**: Phases, factors affecting healing, and complications. • **Surgical Infections**: Types (e.g., cellulitis, abscess, necrotizing fasciitis), management, and antibiotic use. • **Fluid and Electrolyte Management**: Preoperative and postoperative fluid balance. • **Shock**: Types (hypovolemic, septic, cardiogenic), diagnosis, and management. • **Bleeding and Hemostasis**: Coagulation cascade, blood transfusion, and management of bleeding disorders. • **Nutrition in Surgical Patients**: Enteral vs. parenteral nutrition, nutritional assessment. • **Trauma Surgery**: ATLS principles, primary and secondary surveys, and management of polytrauma. *Common Surgical Conditions* • **Acute Abdomen**: Appendicitis, perforated peptic ulcer, intestinal obstruction, acute pancreatitis. • **Hernias**: Inguinal, femoral, umbilical, and incisional hernias. • **Gallbladder and Biliary Tract Diseases**: Cholelithiasis, cholecystitis, cholangitis. • **Breast Diseases**: Benign breast conditions, breast cancer, and triple assessment.	**Clinical Clerkships:** Direct patient care under supervision **Bedside Teaching:** Case discussions, patient rounds **Lectures & Seminars:** Updates on medical advancements **Case-Based Learning (CBL):** Problem-solving discussions	**Clinical Performance:** Supervisor assessments during rotations **Written Exams:** MCQs, short-answer questions (SAQs) **OSCE (Objective Structured Clinical Examination):** Practical skills and case scenarios **Case Presentations:** Individual and group-based presentations **Logbook & Portfolio:** Documenting cases, procedures, and reflections **Final Comprehensive Exam:** Includes written, oral, and clinical components

	• **Thyroid and Parathyroid Diseases**: Goiter, hyperthyroidism, thyroid cancer. • **Colorectal Surgery**: Colorectal cancer, diverticulitis, inflammatory bowel disease (IBD). • **Vascular Surgery**: Peripheral arterial disease, deep vein thrombosis (DVT), varicose veins. *Oncology* • Principles of cancer surgery: Staging, biopsy techniques, and multidisciplinary management. • Common surgical cancers: Breast, colorectal, thyroid, and skin cancers. *Pediatric Surgery* • Common pediatric surgical conditions: Congenital hypertrophic pyloric stenosis, intussusception, inguinal hernia. • Neonatal emergencies: Tracheoesophageal fistula, congenital diaphragmatic hernia. *Orthopedic Surgery* • Fracture management: Principles of fracture healing, casting, and surgical fixation. • Common orthopedic conditions: Osteoarthritis, septic arthritis, compartment syndrome. *Urology* • Common urological conditions: Benign prostatic hyperplasia (BPH), urinary stones, testicular torsion. • Urinary tract infections (UTIs) and their surgical implications.		

	Neurosurgery • Head injury: Assessment and management. • Increased intracranial pressure (ICP) and its surgical management. *Cardiothoracic Surgery* • Basics of cardiac surgery: Coronary artery bypass grafting (CABG), valve replacement. • Thoracic conditions: Pneumothorax, pleural effusion, lung cancer. ## 2. Clinical Skills Training These are the practical skills that 6th-grade medical students are expected to learn and practice during their clinical rotations. *Basic Surgical Skills* • **Aseptic Technique**: Handwashing, scrubbing, gowning, and gloving. • **Wound Management**: Suturing, knot tying, wound dressing, and drain removal. • **Incision and Drainage**: Abscess drainage and wound debridement. • **Catheterization**: Foley catheter insertion. • **Nasogastric Tube Insertion**: Indications and technique. *Advanced Skills (Observed or Assisted)* • **Assisting in Surgery**: Retracting, suctioning, and assisting with hemostasis. • **Laparoscopic Skills**: Basics of laparoscopic instruments and techniques.		

	• **Biopsy Techniques**: Fine-needle aspiration (FNA), core biopsy, and excisional biopsy. ## 3. Clinical Rotations During the 6th grade, students typically rotate through various surgical departments to gain hands-on experience. The rotations may include: *General Surgery Ward* • Preoperative assessment and preparation. • Postoperative care: Monitoring vitals, managing drains, and recognizing complications. • Ward rounds with the surgical team. *Operating Theater* • Observing and assisting in surgeries. • Understanding the roles of the surgical team (surgeon, anesthetist, scrub nurse). • Learning about sterilization and operating room protocols. *Outpatient Clinics* • Evaluating new patients with surgical complaints. • Follow-up of postoperative patients. • Learning to take focused surgical histories and perform physical examinations. *Emergency Department* • Managing acute surgical conditions (e.g., trauma, acute abdomen). • Participating in trauma calls and emergency surgeries. ## 4. Case-Based Learning		

	Students are often required to present and discuss cases to reinforce their learning. Examples include: • **Case Presentations**: Presenting a patient's history, examination findings, diagnosis, and management plan. • **Journal Clubs**: Discussing recent surgical research papers or guidelines. • **Morbidity and Mortality (M&M) Meetings**: Analyzing complications and learning from mistakes.		

11. Course Evaluation	
Case-Based Discussions (CBDs) – Evaluates problem-solving and clinical reasoning. Objective Structured Clinical Examinations (OSCEs) – Assesses decision-making in real-life scenarios. Multiple Mini Interviews (MMIs) – Tests ethical reasoning and communication. Critical Appraisal of Research – Develops analytical thinking skills. Portfolio & Reflective Writing – Encourages self-assessment and improvement.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Baily and Love's Textbook / Short Practice Surgery Brows Textbook of Clinical examination
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name:	
Clinical pediatrics	
2. Course Code:	
3. Semester / Year:	
6th year	
4. Description Preparation Date:	
11/5/2025	
5. Available Attendance Forms:	
6th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
300	
7. Course administrator's name (mention all, if more than one name)	
Name:	
8. Course Objectives	
Course Objectives	**Performing a thorough pediatric history and physical examination** **Interpreting laboratory and imaging studies** **Developing a differential diagnosis** **Creating a management plan**
9. Teaching and Learning Strategies	
Strategy	Clinical tour Case based learning to solve patient problem Small group teaching Skill lab
10. Course Structure	

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1st	6hrs.	Growth and Development* - *Objective:* Assess and monitor normal growth and development in children. - Learn to plot and interpret growth charts (weight, height, head circumference). - Identify developmental milestones and recognize delays. - Understand the impact of nutrition, genetics, and environment on growth.	practical experiments and skills	Oral questions and discussion with students
2nd	6hrs.	Neonatology* - *Objective:* Manage common neonatal conditions and provide newborn care. - Learn about routine newborn care (e.g., breastfeeding, immunization, screening tests). - Diagnose and manage neonatal jaundice, respiratory distress syndrome, and sepsis. - Understand the principles of neonatal resuscitation (NRP).	//	//
3rd	6hrs.	Nutrition and Nutritional Disorders* - *Objective:* Promote optimal nutrition and manage nutritional disorders. - Understand breastfeeding techniques and complementary feeding. - Diagnose and manage malnutrition (e.g., undernutrition, obesity, micronutrient deficiencies). - Learn about nutritional requirements for different age groups.	//	//
4th	6hrs.	Infectious Diseases* - *Objective:* Diagnose and manage common pediatric infections. - Recognize and treat respiratory infections (e.g., pneumonia, bronchiolitis). - Manage gastrointestinal infections (e.g., diarrhea, viral hepatitis). - Understand the prevention and treatment of vaccine-preventable diseases (e.g., measles, pertussis).	//	//
5th	6hrs.	Respiratory Disorders* - *Objective:* Evaluate and manage	//	//

		respiratory conditions in children. - Diagnose and treat asthma, cystic fibrosis, and recurrent wheezing. - Learn about the management of chronic lung diseases (e.g., bronchopulmonary dysplasia).		
6th	6hrs.	Gastrointestinal Disorders* - *Objective:* Manage common gastrointestinal conditions in children. - Diagnose and treat gastroesophageal reflux disease (GERD), celiac disease, and inflammatory bowel disease (IBD). - Understand the approach to acute abdominal conditions (e.g., appendicitis, intussusception).	//	//
7th	6hrs.	. Cardiovascular Disorders* - *Objective:* Recognize and manage pediatric heart conditions. - Diagnose congenital heart diseases (e.g., VSD, ASD, TOF). - Manage acquired heart diseases (e.g., rheumatic fever, Kawasaki disease).	//	//
8th	2hrs.	Neurology* - *Objective:* Evaluate and manage neurologic conditions in children. - Diagnose and treat epilepsy, cerebral palsy, and neurodevelopmental disorders. - Learn about the management of acute neurologic emergencies (e.g., meningitis, status epilepticus).	//	//
9th	2hrs.	Skill lab attendance Exchange transfusion training LP procedure Vein cannulation	//	//

11.Course Evaluation	
Osce exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Macleod's Clinical Examination: 15th edition Hutchison Paediatrics
Main references (sources)	
Recommended books and references	

(scientific journals, reports…)	
Electronic References, Websites	