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 Year Two College of Medicine University of Alkafeel

2025-2026

University Name: Alkafeel
Faculty/Institute: College of Medicine
Year: Two
Year Moderator: Lect. Dr Hayder Talib Mohammed Ali
Academic or Professional Program Name: Year Two/ M.B.Ch.B
Final Certificate Name: MBChB
Academic System: Courses
Description Preparation Date: 2025-2026
File Completion Date:

Signature:
Year Moderator:

Lect. Dr. Hayder Talib Mohammed Ali
Date: 10-9-2025

Signature:
Scientific Associate Name:
Asst. Prof. Dr. Fatimah Kareem Khalaf
Date: 10-9-2025

The file is checked by:

Department of Quality Assurance and University Performance
Director of the Quality Assurance and University Performance Department:
Asst. Lect. Ameer Mohammed Kadhim

Date: 10-9-2025

Signature:

Approval of the Dean
Asst. Prof. Dr. Samer Makki Mohamed Al Hakkak

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 quarterly

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 (Semesters) 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.

1. Program Vision

World-class medical school recognized for excellence in education, research and clinical care, and to prepare the next generation of compassionate, innovative health care professional.

2. Program Mission

Following the most updated and recognized parameters and fostering the scientific research to prepare qualified graduate in medicine to comply with the community needs and modernity in the profession.

3. Program Objectives

1. Prepare graduates capable of diagnosis, treatment, and follow-up of patients.
2. Convey medical knowledge and skills through university education, continuous learning, and higher research work.
3. Fostering professional and moral values in providing health care.
4. joining the students in the process of complying and improving the knowledge through scientific research.

4. Program Accreditation

Does the program have program accreditation? No (the first batch of the college are now a 4th year students)

5. Other external influences

Is there a sponsor for the program?
Yes, Ministry of Higher Education- Private Education Department and Higher Education Authority- Attabah Abbasia

6. Program Structure				
Program Structure	**Number of Courses**	**Credit**	**Percentage**	**Reviews***
Institution Requirements	**2**	**41**	**5%**	**Basic**
College Requirements	**12**	**41**	**5%**	**Basic**
Department Requirements	**2**	**41**	**5%**	**Basic**
Summer Training	**Nil**	**Nil**	**Nil**	
Other				

7. Program Description				
Year/Level Course	**Course Code**	**Course Name**	**Credit Hours**	
			Theoretical	**Practical**
Year Two	**PHY002**	**Physiology S1**	**4**	**2**
		Physiology S2	**4**	**2**
	AN002	**Anatomy S1**	**3**	**4**
		Anatomy S2	**3**	**4**
	CH002	**Chemistry S1**	**3**	**2**
		Chemistry S 2	**2**	**2**
	EMB002	**Embryology**	**2**	**--**
	HIS002	**Histology S1**	**2**	**2**
		Histology S 2	**2**	**2**
	ECPD002	**ECPD**	**1**	**4**

	EG002	**Educational Guidance**	**1**	**--**
	CB002	**Crimes of Baath Party**	**2**	**--**

8. Expected learning outcomes of the program

Knowledge	
Physiology	Gain a comprehensive understanding of the structure and function of the human body at the cellular, tissue, organ, and system levels.
Chemistry	Explain the basic principles of clinical chemistry and its role in healthcare. Correlate alterations in carbohydrate, lipid, and protein metabolism with various disease states. Interpret common clinical chemistry tests used to assess renal, liver, and electrolytes.
Embryology	Understanding the stages of human fetal development from the moment of fertilization to birth.
Anatomy	Understand the anatomical structure of skull, head and neck, cervical organs and the nervous system.
Histology	Understand the structure of the organ systems in human body, and the major histological features of different body organs
Skills	
Early Clinical and Professional Development (ECPD)	Develop the skills to gather a comprehensive medical history from patients and perform a thorough physical examination.
Ethics	

Medical Ethics	To treat all patients according to principles of medical ethics, emphasizing patient confidentiality, informed consent, and professional integrity
Patient safety	To develop essential clinical skills with the overall aim of ensuring patients' safety.

9. Teaching and Learning Strategies

1. **Theory lectures**
2. **Laboratory sessions**
3. **Display and presentation.**
4. **Interactive discussion**
5. **Brainstorming**
6. **Small group teaching**
7. **Flipped classroom.**
8. **Seminar**
9. **Clinical visit**
10. **Interactive Learning Activities (ILA)**

10. Evaluation methods

1. **Homework and individual and group reports**
2. **Daily quizzes (Formative and Summative Exams)**
3. **Practical skills assessment**
4. **Midterm and end of term exams**
5. **Graduation projects**

11.Faculty					
Faculty Members					
Academic Rank	**Specialization**		**Special Requirements/ Skills (if applicable)**	**Number of the teaching staff**	
	General	**Special**		**Staff**	**Lecturer**
Asst.Prof. Dr. Samer Makki Mohammed		✓		✓	
Asst.Prof. Dr. Fatima Kareem Khalaf		✓		✓	
Prof. Dr. Ihasan M. Ajeena		✓			✓
Lect. Dr. Haider Abdulwahab		✓		✓	
Lect. Dr. Ali Kamal		✓		✓	
Lect. Dr. Abdulzahra A. Hussain		✓		✓	
Lect. Dr Firas Fadhil Mohamed		✓		✓	
Asst.Prof.Dr. Falah Mahdi Dananah		✓			✓
Asst.Prof. Dr. Amaar Saeed Rasheed		✓			✓
Asst.Prof. Dr. Ahmed Nasser kaftan		✓			✓
Asst.Prof. Dr. Rasha H. Dosh		✓			✓
Asst.Prof. Dr. Munqith Mazin		✓			✓
Asst.Lect. Nahidh Al-Jaberi		✓		✓	

Asst.Lect. Asya Abbas Abood		✓		✓	
Asst.Lect. Ameer Mohammed Kadhim		✓		✓	
Asst.Lect Huda Falah Judi		✓		✓	
Muhammed Taqi Jawad	✓			✓	
Ali Hassan Hadi	✓			✓	
Yassin Faris Abd Yassin	✓			✓	
Mohammed Mahdi Sadeq	✓			✓	
Noor Mohammed Kadhim	✓			✓	
Fatima Mohammed Hussain	✓			✓	

Professional Development
Mentoring new faculty members
Subjecting new teachers to courses on teaching methods and taking a teaching competency test, and only by passing it are they allowed to teach, while following up on their teaching methods and giving them feedback.
Professional development of faculty members
Follow up on teaching methods for all teachers by the Office of the Assistance Dean for Scientific Affairs, prepare seminars and workshops to develop teaching and speaking skills, and ensure the preparation and presentation of lectures in the continuing medical education curriculum.

12. **Acceptance Criterion**
The academic average for the student's graduation from preparatory school, physical and mental health according to the standards established and approved by the Ministry of Higher Education and Scientific Research

13.**The most important sources of information about the program**
1. Approved and authenticated documents for the general curriculum of the college and the courses, vision, mission, and goals of the university and college in both Arabic and English. 2. The website of the Ministry of Higher Education and Scientific Research. 3. The official website of AlKafeel University and its College of Medicine.
14.Program Development Plan
Systematic and recurring self-evaluation studies of the program based on evaluating the learning and teaching outcomes of students and obtaining feedback from students about the program's components. 2) Regular meetings with teaching staff in local and foreign medical colleges to learn about new curricula and teaching methods. 3) Holding workshops on developing curricula and teaching methods in the college or attending those held in neighboring universities.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A 4	B1	B2	B 3	B4	C1	C2	C3	C4
Year Two	EMB002	Embryology	Basic			/								/	
	AN002	Anatomy	Basic			/				/				/	
	CH002	Chemistry	Basic			/			/					/	
	PH002	Physiology	Basic			/				/					/
	HIS002	Histology	Basic			/				/				/	
	ECPD2	ECPD2	Basic			/					/				/
	•EDU002	Educational guidance	Basic												/
	DEM002	Democracy	Basic				/								/
	CB002	Crimes of Baath	Basic				/				/				/

Course Description Form

1. Course name
Anatomy
2. code name:
AN002
3. Semester/ Year :
First and Second semester/ 2025-2026
4. This description was prepared in
10-9-2025
5. Available attendance forms
Lectures and practical labs
6. Number of study hours (total) / Number of units (total)
120 hours/6 credits
7. Course instructor name
Asst. Prof. Dr. Munqith Mazin Almahmood **Email: Munqithm.almahmood@uokufa.edu.iq**
8. Course objectives
• **Illustrate the anatomical structure of skull, regions of the head and neck, and cervical organs.** • **Demonstrate the anatomical components of the nervous system, and define the intricate structure and function of each part.**
9. Teaching and learning strategies

Strategy	**Theoretical lectures and Lab sessions**

10.Course structure

Evaluation method	Learning method	Name of unit or topic	Required learning outcomes	hours	week
	Lecture	Skull anatomy			1

Daily quizzes (Formative and Summative Exams) Reports Midterm Exams Practical Final Exam Theoretical Final Exam	=	Face and scalp			2
	=	Temporal region			3
	=	infratemporal Fossa and TMJ			4
	=	Orbit and eye			5
	=	Nose and paranasal sinuses			6
	=	Oral Cavity and Salivary Glands			7
	=	Ear anatomy			8
	=	Fascial Compartments of the Neck			9
	=	Triangles and Muscles of the Neck			10
	=	Thyroid Gland, Trachea and Pharynx			11
	=	Larynx and Innervation of the Neck			12
	=	Blood Vessels and Lymphatics of the Neck			13
	=	Root of the neck			14
	=	Cranial Cavity and Gross Anatomy of Nervous system			15

	=	Meninges and Dural Venous Sinuses			16
	=	Cerebral Cortex and Functional Localization			17
	=	Cerebral medullary center (white mater)			18
	=	Brain Ventricles and CSF			19
	=	Diencephalon			20
	=	Brain stem			21
	=	Cerebellum			22
	=	Limbic System and Reticular Formation			23
	=	Spinal cord			24
	=	Sensory and motor pathway			25
	=	Cross Sectional Anatomy and Blood Supply of the Brain			26
					27
					28
					29

11.Course Evaluation

For each semester: Evaluation semester 100%

10 % Grades quizzes exam,

20 % Grades theoretical mid-semester, **70% Grades final semester (Final practical 20 grades+ and Final theoretical 50 grades)**	
1. Learning and teaching resources	
4. Required textbooks (methodology if any)	**1. 1. Clinical Anatomy by Regions (Snell)** **2. 2. Clinically Oriented Anatomy (Moore)** **3. 3. Gray's Anatomy for Students**
Main References (Sources)	**Same as above**
Recommended supporting books and references (scientific journals, reports...)	
Electronic references ,websites	**[1] TeachMeAnatomy - Making Anatomy Simple** **[2] Home | Anatomy.app | Learn anatomy | 3D models, articles, and quizzes** **[3] Human Anatomy Explorer | Detailed 3D anatomical illustrations(innerbody.com)**

Course Description form:

1. Course name
Embryology
2. Course code:
EMB002
3. Semester/ Year :
First / The second stage
4. Description Preparation Date
September 9 2025
5. Available attendance forms
Lectures
6. Number of study hours (total) / Number of units (total)
Thirty hours /2 credits
7. Course instructor name
Dr. Firas Fadhil Mohammed Al-Masoodi **Firas.almasoody@alkafeel.edu.iq**
8. Course objectives
• **Understanding the stages of human embryo development from fertilization to birth.** • **Understand how the body's organs are formed, including internal and external organs.** • **Understand how birth defects occur, their causes, and how to diagnose and treat them.** • **Linking embryology to clinical medicine, and its applications in diagnosis and treatment.**
9. Teaching and learning strategies

Strategy	**Embryology is an important subject for medical students, because it provides them with**

	the basic knowledge they need to understand how the human body grows and develops, and how diseases and disorders occur.

10.Course structure

Evaluation method	Learning method	Name of unit or topic	Required learning outcomes	hours	week
Daily quizzes (Formative and Summative Exams) Midterm Exams Theoretical Final Exams	Lecture	Introduction to Medical Embryology.		1	1
	=			1	2
	=	Gametogenesis-Oogenesis and Spermatogenesis.		1	3
	=	First Week of Development.		1	4
	=	Ovulation to Implantation.		1	5
	=	Second Week of Development-Bilaminar Germ Disc.		1	5
	=	Third Week of Development-Trilaminar Germ Disc.		1	6
		Third -Eighth Week of Development			
	=	The Embryonic Period.		1	7
		9th week to Birth-The Fetal Period.			
	=	Development of the Gut Tube and Body Cavities.		1	8
	=	Development of the Placenta and Fetal membranes.		1	9
		Development of the Respiratory System-		1	10

	=	Formation of Lung Buds.			
	=	Development of the Cardiovascular System-Part I		1	11
	=	Development of the Cardiovascular System-Part II		1	12
	=	Development of the Digestive System- Part I Development of the Digestive System- Part I		1	13
	=	Development of the Urinary System Development of the Genital System		1	14
	=	Clinical Aspects of Urogenital System.		1	15
	=	Development of the Head and Neck.		1	16
	=	Derivatives of the Pharyngeal Arches, Pharyngeal Pouches, and Pharyngeal Clefts		1	17
	=	Development of the Skeletal System.		1	18
	=	Birth Defects Prenatal Diagnosis		1	19
	=	Development of the Integumentary System.		1	20
	=	Development of the Ear.			

	=	Development of the Eye.		1	21
	=	Development of the Nervous System.		1	22
	=	Development of the Brain (Hindbrain, Midbrain, and Forebrain).		1	23
	=	of Spinal Cord and Peripheral nervous system.		1	24
	=			1	25
	=			1	26
	=			1	27
	=			1	28
	=			1	29
	=			1	30

11.Course Evaluation

For each semester: Evaluation semester 100%

10 % Grades quizzes exam,

20 % Grades theoretical mid-semester,

70% Grades final semester (Final practical 20 grades+ and Final theoretical 50 grades)

12.Learning and teaching resources

Required textbooks (methodology if any)	**Langman's Medical Embryology W Sadler & Jan Langman-13th edition.** **Larsen's Human Embryology 6th Edition.** **Before we are born. Essentials of embryology and birth defects- 9th edition.**
Main References (Sources)	**Same as above**
Recommended supporting books and references (scientific journals, reports...)	**Additional resources are provided in each lecture separately if required**
Electronic references ,websites	**Additional resources are provided in each lecture separately if required**

Course Description form:

1. Course name:
Histology
2. Course code :
HIS002
3. Semester/ Year :
First + Second / 2025-2026
4. Description Preparation Date
September 9 2025
5. Available attendance forms:
Lectures + Lab
6. Number of study hours (total) / Number of units) total:(
120hours (60T, 60P) / 6 credits
7. Course instructor name
Asst. Prof. Dr. Rasha Hatem Saeed Rasha.dosh@uokufa.edu.iq **Asst. Lect. Asiya Abbas Abood**
8. Course objectives
The course is designed to enable the students to: 1. Identify the structure of the organ systems in human body 2. Define major histological features of different body organs. 3. Identify regional variations in histological structures in different organ systems. 4. Relate histology to selected pathological conditions of different body organs. 5. Identify tissue section in histological slides stained by common and specific stains
9. Teaching and learning strategies

Strategy	The student acquires knowledge and skills in the subject of human histology so that he/she is able to recognize the microstructure of the normal primary tissues and body organs.

10.Course structure

week	hours	Required learning outcomes	Name of unit or topic	Learning method	Evaluation method
1	2 Theoretical + 2 Laboratories	The structure & function of cellular organelles. Cytoskeleton. The major 4 basic human tissues. Cell Adhesion & Cell Adhesion Molecules (CAMs).	Introduction to Histology.	Lecture and lab	Daily quizzes (Formative and Summative Exams) Reports Practical exams Midterm Exams Final Exams
2		Epithelial tissue and Glandular epithelia.	Specializations of the cell surface.		
3		Ground substance, fibers and cells of connective tissue. Major classifications of connective tissue with their sub-classification.	Connective tissue		
4		Hyaline, elastic & fibrocartilage.	Cartilage		

		Growth of cartilage. **Bone: the histological and functional features of bone cells, matrix. Types of bones.** **Types of ossifications, growth & remodeling.**			
5		**Structure, function, localization and contraction & of skeletal muscle. Duchenne muscular dystrophy, myasthenia gravis.** **Structure, function and localization of cardiac muscle & smooth muscle.**	**Muscle tissue**		
6		**Anatomical & functional divisions of the nervous system. Cells & synapses. Structure and function of the neuromuscular junction.**	**Nervous system**		

		Autonomic and sensory ganglia. **Nerve fibers, nerves, and neuroglia. Guillain-Barre syndrome and multiple sclerosis. Structure and function of blood-nerve barrier, choroid plexus. White and grey matter in the brain and spinal cord. The structure and function of the meninges. Blood-brain barrier & blood-CSF barrier.**			
7		**Respiratory system I (conducting portion): nose, nasal cavities, olfactory mucosa, nasopharynx, larynx, vestibular and vocal folds, epiglottis, trachea, bronchi, bronchioles,**	**Respiratory system**		

		and terminal bronchioles.			
8		Midterm examination			
9		Midterm examination			
10	2 Theoretical 2 Laboratories	Respiratory system II (respiratory portion): respiratory bronchioles, alveolar ducts, and alveoli. Structure & function of the blood-air barrier.	Respiratory system		
11		The structure of the heart wall. Heart chambers. Purkinje fibers. Histological structure of blood vessels, large elastic arteries, medium arteries, and arterioles. Capillaries (continuous, fenestrated and sinusoids). Capillary plexus.	Cardiovascular system		

		Veins; large veins (vena cava), small to medium veins, and venules. **Arteriovenous anastomosis.**			
12		**Blood cells, formed elements.** **Hematopoiesis; stem cells, hematopoietic stem cells, myeloid and lymphoid lineages. The structure of the bone marrow. Maturation of granyolocytes, maturation of lymphocytes & monocytes. Erythropoiesis. Thrombopoiesis.** **Theoretical Examination.**	**Hematopoiesis and blood.**		
13		**Primary and secondary lymphoid organs. Lymph vessels. Lymphatic cells. The structure and function of the thymus, lymph node.**	**Lymphatic system.**		

14		**Lymphatic system. The structure and function of the spleen, tonsil and peyer's patches.**	**Lymphatic system.**		
15		**Final examination**	**Final examination**		
16		**The histology of the kidney, nephron, ureter, urinary bladder and urethra.**	**Urinary system**		
17		**Differentiate between thick and thin skin. Epidermal skin appendages. The structure and function of hair follicles. The structure, function, and localization of sebaceous glands, eccrine and apocrine sweat glands. Pemphigus, Basal cell carcinoma, Psoriasis, Malignant melanoma, Vitiligo, Albinism, bullous pemphigoid, alopecia totalis**	**Integumentary system**		

		and areata, and acne The Sensory Receptors of the skin.			
18		The basic histological characteristics of all endocrine glands. The glandular and nervous tissue components of the pituitary gland.	Endocrine system Part 1		
19		The microscopic structures of anterior and posterior pituitary.	Endocrine system Part 1		
20		The structure and function of the thyroid gland, parathyroid gland, adrenal gland, and pineal gland.	Endocrine system Part 2		
21		Histology of oral cavity, lip, tongue papilla, pharynx, esophagus, stomach, small intestine, large intestine, anus.	Introduction to GIT.		
22		Histology of liver lobules and triad,	GIT		

		pancreas and gall bladder.			
23		Midterm examination	Midterm examination		
24		Midterm examination	Midterm examination		
25	2 Theoretical 2 Laboratories	Tests and seminephrous tubules, male sperm passages, seminal vesicle, prostate, and urethra.	Male reproductive system		
26		Ovaries, types of follicles, corpus luteum, uterine tubes, uterus and endometrial cycles, cervix and vagina and mammary glands.	Female reproductive system		
27		Histological structure of the eye ball, eyelids, and neural retina.	Organ of special senses eye		
28		Histology of external, middle and inner ear.	Organ of special senses ear		

29		**Overview**			
30		**Final examination**			

11.Course Evaluation

For each semester: Evaluation semester 100%

10 % Grades quizzes exam,

20 % Grades theoretical mid-semester,

70% Grades final semester (Final practical 20 grades+ and Final theoretical 50 grades)

12.Learning and teaching resources

Required textbooks (methodology if any)	**[1] Histology: A Text and Atlas: With Correlated Cell and Molecular Biology, 8th edition, by Wojciech Pawlina, Michael H. Ross.** **[2] Junqueira's Basic Histology: Text and Atlas, 16th Edition, by Anthony L. Mescher.** **[3] Netter's Essential Histology: With Correlated Histopathology (Netter Basic Science) 3rd Edition, by William K. Ovalle , Patrick C. Nahirney.**
Main References (Sources)	
Recommended supporting books and references (scientific journals, reports...)	**[1] Lippincott's Illustrated Reviews: Cell and Molecular Biology, 2nd edition, by Nalini Chandar and Susan Viselli.**

	[2] Stevens & Lowe's Human Histology 5th Edition, by James S. Lowe, Peter G. Anderson. **[3] Leeson TS, Leeson CR & Paparo AA (1988): Text/Atlas of Histology. WB** **Saunders. USA.**
Electronic references ,websites	**https://libguides.tulane.edu/histo_ed**

Course Description Form:

1. Course name:
ECPD 2

2. Course code:
ECPD002
3. Semester/ Year :
Annual program/ 2025-2026
4. Description Preparation Date
September 9 2025
5. Available attendance forms:
Class + Skill Lab+ Hospital visits
6. Number of study hours (total) / Number of units) total:(
30 Theory lectures+ 60 Practical sessions = 3 Credits
7. Course instructor name
Lect. Dr. Haider Abdul-Wahab Alhakim **haidar.alhakim@alkafeel.edu.iq**
8. Course objectives
Early start, creates, develops, and improve the skills of medical college students from a clinical standpoint, as well as from a professional and personal standpoint, so that they become highly competent and able to perform the practical tasks they will face when they begin their work after graduating from college in the service of their patients and their community.
9. Teaching and learning strategies

Strategy	**1) Theory lectures as LGT to cover the knowledge of the clinical aspect of medical management (diagnosis) and professionalism and medical ethics.** **2) Training at the clinical skills lab.** **3) Field visits to the hospitals and PHC clinics.**

1. Course structure

week	hours	Required learning outcomes	Name of unit or topic	Learning method	Evaluation method
1			ECPD Introduction & Plans		
2			Basic Principles of History Taking		
3			Basic Principles of General Examination		
4			Vital Signs Assessment		
5			Communication Skills		
6			Professionalism in the Medical Context (Medical Leadership)		
7			Professionalism in the Medical Context (Time Management)		
8			Medical Recording and Confidentiality		
9			Basic Life Support (BLS) (Overview).		
10			Basic Principles of Investigations		
11			Inter-professional Collaboration in Healthcare		
12			Common Emergencies		
13					
14					
15					
16					
17					
18					
19					
20					
21					

LGT
SGT
ILA session

Daily quizzes (Formative and Summative Exams)

Mid-year Exams

OSCE exams

Final Exams

22 23 24 25 26 27 28 29 30			Evidence-Based Medicine (Basic Concept) Epidemiology and Public Health (Infection Control and Prevention) OSCE Preparation Medical Negligence and Malpractice Human Rights and Medical Practice Role of AI in Modern Medical Practice Concept Map (Role in Medical Teaching) Principles of Community Follow up Principles of Reflection and Feedback in the Medical Practice Medical Career Management Basic Considerations in Prescribing Medications.		

			Practical Sessions **History taking** **General examination** **Vital signs** **Investigations** **(Glucometer/swabs)** **Basic procedures.**		

1. Course Evaluation	
The final exam (70 marks) / Mid-year exam (15 marks) / Practical sessions (OSCE) – 15 marks	
2. Learning and teaching resources	
Required textbooks (methodology if any)	
Main References (Sources)	**[1] Essentials of General Surgery** **[2] Nursing Care Guides** **[3] Osmosis from Elsevier**
Recommended supporting books and references (scientific journals, reports...)	
Electronic references ,websites	

Course Description form:

1. Course name
Clinical Chemistry
2. Course code:
CH002
3. semester/year
First and second semesters / 2025-2026
4. File preparation date:
September 9 2025
5. Available attendance forms
Lectures and practical labs
6. Number of study hours (total) / Number of units (total)
135 hours / 7 credits
7. Course instructor name
Asst. Prof. Dr. Ahmed Naseer kaftan Email: ahmedn.kaftan@uokufa.edu.iq Asst. Lect. Huda Falah joodi huda.f.joodi@alkafeel.edu.iq
8. Course objectives
Upon successful completion of this course, students will be able to: • .Explain the basic principles of clinical chemistry and its role in healthcare • Linking changes in carbohydrate, fat and protein metabolism with various .disease states • Interpret common clinical chemistry tests used to evaluate kidney, liver, and . electrolyte status • To determine the potential clinical significance of abnormal laboratory findings .in different disease contexts • Explain the role of enzymes in metabolism and discuss the consequences of .enzyme deficiency Apply acquired knowledge to analyze case studies and clinical scenarios involving disorders related to the focus areas.

10.Teaching and learning methods

- This course will combine lectures, discussions, case studies, and laboratory exercises to provide students with a comprehensive understanding of clinical chemistry and its importance in the diagnosis and management of ,human diseases. In addition, the course will include laboratory sessions allowing students to gain practical experience in basic biochemical .techniques.

11.Course structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			Carbohydrate disorder: hyperglycemia, diabetes mellitus and hypoglycemia	Lectures	Daily quizzes (Formative and Summative Exams) Reports Practical exams Midterm Exams Final Exams
2			Serum lipids, normal metabolism and disorders	=	
3			Serum lipids, normal metabolism and disorders	=	
4			Renal functions, normal metabolism and disorders	=	
5			Liver functions normal, disorders and drug detoxifications	=	

6			**Water and electrolyte metabolism, normal and disorders**	**=**	
7			**Calcium and phosphate normal metabolism and disorders**	**=**	
8			**Clinical enzymology: use of enzymes in clinical diagnosis, isoenzymes, their clinical significance**	**=**	
9			**Clinical enzymology: use of enzymes in clinical diagnosis, isoenzymes, their clinical significance**	**=**	
10			**Porphyria metabolism and disorders, hemoglobinopathies, disorders of iron metabolism and significance of related laboratory tests**	**=**	

11			**Tumer markers**	**=**	

12.Course Evaluation

For each semester: Evaluation semester 100%

10 % Grades quizzes exam,

20 % Grades theoretical mid-semester,

70% Grades final semester (Final practical 20 grades+ and Final theoretical 50 grades)

13.Learning and Teaching sources

Required textbooks (curricular books, if any)	• **Clinical Chemistry & Metabolic Medicine. Martin Crook** • **Clinical Biochemistry (Lecture Notes), Peter Rae**
Main references (sources)	• **Clinical Chemistry & Metabolic Medicine. Martin Crook** • **Clinical Biochemistry (Lecture Notes), Peter Rae**
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description form:

1. Course name:
Physiology
2. Course code :
PHY002
3. Semester/ Year :
First + Second / 2025-2026
4. Description Preparation Date
September 9 2025
5. Available attendance forms:
Lectures and practical labs
6. Number of study hours (total) / Number of units) total:(
180 0hours (120T, 60P) / 10 credits
7. Course instructor name
Prof.Dr. Ihasan Ajeena **Dr. abdulzahraa A. Hussain** **Dr. Firas F. Almassody** **Dr. Falah Dananh** **Asst. Lect. Ameer M. Kadhim**
8. Course objectives
The course is designed to enable the students to: • **Equipping students with foundational knowledge of physiological principles, essential for comprehending the complex mechanisms governing bodily functions and homeostasis.** • **Fostering an in-depth understanding of cellular, organ, and systemic physiology, enabling students to grasp the intricate interplay between various physiological systems and their roles in maintaining health.**

- **Developing students' analytical and critical thinking skills, thereby enabling them to interpret and evaluate medical research findings and apply evidence-based approaches in clinical practice.**
- **Enhancing students' comprehension of the etiology and pathophysiology of diseases and disorders, facilitating accurate diagnosis and effective treatment strategies.**
- **Providing opportunities for students to integrate theoretical knowledge with clinical scenarios, through case studies, simulations, and practical exercises, thereby bridging the gap between theory and real-world medical practice.**

9. Teaching and learning strategies

Strategy	**Through a blend of theoretical instruction and hands-on laboratory sessions,** **students delve into the complexities of physiological processes.**

10.Course structure

week	hours	Required learning outcomes	Name of unit or topic	Learning method	Evaluation method

1-4			**Physiological functions of the lungs, Process of respiration: mechanics of breathing.** **2. Lung volumes and capacities.** **3. Compliance of the lung, role of surfactant.** **4. Pulmonary and alveolar ventilation.** **5. Transport of O2 by the blood.** **6. Transport of CO2 by the blood.** **7. Role of the respiratory system in acid- base regulation.** **8. Regulation of breathing: voluntary and involuntary control.** **Regulation of breathing: ventilatory responses to CO2 rise and O2 lack.**	**Lecture**	**Daily quizzes (Formative and Summative Exams)** **Reports** **Practical exams** **Midterm Exams** **Final Exams**

5-9			**Functional design of cardiovascular structure of the heart and blood vessels.** **2. Properties of cardiac muscle- auto rhythmicity and conductivity.** **3. Properties of cardiac muscle- contractility & refractory characteristics.** **4. Electrophysiology of the heart (ECG).** **5. Mechanical events in cardiac cycle.** **6. Heart sounds and murmurs.** **7. Cardiac output.** **8. Work and efficiency of the heart.** **9. Vascular system- condition of flow & pressure.** **10. Blood pressure and its**		

			regulation **11. Circulatory regulation, general** **nervous & local peripheral** **mechanisms.** **12. Circulation through special** **regions; coronary, skeletal muscle. cerebral and skin** **circulation.** **13. Cardiovascular hemostasis, cardiac insufficiency, shock,** **and postural changes.** **14. Starling forces across capillary beds.** **Venous pressure and flow**		

10-12			**Renal circulation and glomerular filtration.** **2. Tubular reabsorption.** **3. Tubular secretion.** **4. Water excretion by the kidneys.** **5. Role of the kidney in electrolytes balance.** **6. Renal mechanisms of acidification of urine and its significance in the regulation of pH.** **7. Regulation of body fluid volume.** **8. Renal disease and diuresis.** **Renal function test**		
13-15			**1. Discuss the major fluid compartments of the body and their relative volumes** **2. Describe the ionic composition of extracellular and intracellular fluid, their amount and distribution especially, sodium, potassium and calcium**		

			and the mechanism that control their distribution. 3. Fluid compartment 4. Water and electrolyte balance. 5. Edema		
16-18			Gastrointestinal anatomy and general principles of its physiology. 2. Saliva and swallowing 3. Stomach motility and secretion. 4. Small intestine motility 5. Small intestine secretion. 6. Large intestine motility and secretion. 7. Pancreas. Liver		
19-21			Generation of membrane potential of nerve cell. 2. Excitation and conduction.		

			3. Nerve action potential. **4. Electrogenesis of the action** **potential.** **5. Orthodromic and antidromic** **conduction - properties of mixed** **nerves.** **6. Skeletal muscles** **7. The contractile response -** **muscle twitch.** **8. Properties of skeletal muscles in** **the intact organism - motor** **units.** **9. Energy source and metabolism.** **10. Strength-duration curve -** **cardiac muscle.** **11. The smooth muscles.** **12. The neuromuscular junction.** **13. Autonomic nervous system,**		

			anatomical consideration - sympathetic and parasympathetic nervous systems. 14. Types of autonomic innervation and reflex arc. 15. Higher autonomic centers and neurotransmitters in autonomic nervous systems. 16. Physiology of micturition.		
22-25			1-General sensation. 2. Tactile vibration and position senses. 3. Pain sensation. 4. Spinal cord pathway and reflexes. 5. Spinal cord transaction. 6. Thalamus central representation of sensation		

			7. Reticular activating system. **8. Sleep and** **electroencephalography.** **9. Motor cortex and motor** **pathway.** **10. Basal ganglia.** **11. Cerebellum.** **12. Language learning and** **memory.** **13. Cerebrospinal fluid.** **Limbic system**		
26-28			**Hypothalamic hormones.** **2. Posterior pituitary gland** **hormones.** **3. Anterior Pituitary gland** **hormones.** **4. Growth hormone.** **5. Thyroid gland hormones.** **6. Hypo and hyperthyroidism.**		

			7. Ca2+ metabolism, vitamin D. 8. Ca2+ metabolism, Parathyroid hormone. 9. Pancreatic hormones (insulin) & (Glucagon) 10. Diabetes Mellitus. 11. Metabolic syndrome. 12. Hypoglycemia. 13. Adrenal gland: Anatomy and physiology. 14.Mineralocorticoids and glucocorticoids. 15. Catecholamines. 16. Male reproductive system 17. Female reproductive system 18. Physiology of pregnancy		
29-30			1-Visual sensation. 2. Hearing sensation. 3. Vestibular Function. 4. Taste. Smell.		
11.Course Evaluation					

For each semester: Evaluation semester 100% 10 % Grades quizzes exam, 20 % Grades theoretical mid-semester, 70% Grades final semester (Final practical 20 grades+ and Final theoretical 50 grades)	
1. Learning and teaching resources	
Required textbooks (methodology if any)	**1. Guyton & Hall Text book of Medical Physiology,14th edition, 2021.** **2. Ganong's Review of Medical Physiology, 26th edition 2021.**
Main References (Sources)	
Recommended supporting books and references (scientific journals, reports...)	
Electronic references ,websites	**Additional resources are provided in each lecture separately if required**

Course Description form:

1. Course name:
Crimes of Baath Party
2. Course code:
CB002
3. semester/year:
2025-2026
4. File preparation date:
September 9 2025
5. Available attendance forms:
Lectures
6. Number of study hours (total) / Number of units (total):
30Hours/ 2 credits
7. Course instructor name;
Name: Haider Jasim Muhammad Hussein Hanoon Email: haider.hanoon@alkafeel.edu.iq
8. Course objectives:
تهدف هذه المادة إلى تعليم الطالب أهم انتهاكات النظام البعثي للحقوق والحريات العامة، بالإضافة إلى تعريف الطالب سلوكيات النظام البعثي في المجتمع وتسلطه على الدولة، كما أنها تهدف إلى إلمام الطالب بأهم آثار القمع والحروب التي حصلت في ظل النظام البعثي على البيئة والسكان.
9. Teaching and learning methods
تهتم هذه المادة بدراسة حقبة مرت على الدولة العراقية عُرف عنها انتهاكها لحقوق الانسان وارتكابها لجرائم ضد الإنسانية واشتهارها بحقبة المقابر والابادات الجماعية وإعدامات المدنيين والعسكريين
10.Course structure:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			حملة عن الأنظمة السياسية في العراق	Lectures	Daily quizzes (Formative and Summative Exams) Midterm Exams Final Exams
2			انتهاكات النظام البعثي للحقوق والحريات العامة	=	
3			انتهاكاته الحقوق الفكرية في ظل النظام البعثي	=	
4			انتهاكات الحقوق السياسية في ظل النظام البعثي	=	
5			انتهاكات الحقوق الاقتصادية في ظل النظام البعثي	=	
6			انتهاكات الحقوق الاجتماعية في ظل النظام البعثي	=	
7			انتهاكات الحقوق الثقافية في ظل النظام البعثي	=	
8			انتهاكات الحريات العامة في ظل النظام البعثي	=	
9			انتهاكات الحق في التعددية الحزبية في ظل النظام البعثي	=	
10			انتهاك حرية الرأي والتعبير في ظل النظام البعثي	=	

	=	اسقاط الجنسية في ظل النظام البعثي			11
	=	أثر سلوكيات النظام البعثي في المجتمع، وتسلطه على الدولة			12
	=	انتهاك حقوق الإنسان من خلال الاعتقالات العشوائية وتعذيب السجناء			13
	=	انتهاك حقوق الإنسان من خلال إعدام العسكريين والمدنيين			14
	=	لفصل بين السلطات في ظل النظام البعثي			15
	=	حصر السلطات الثالث بيد النظام البعثي			16
	=	انتهاك السلطة التشريعية في ظل النظام البعثي			17
	=	انتهاك السلطة التنفيذية في ظل النظام البعثي			18
	=	انتهاك السلطة القضائية في ظل النظام البعثي			19
	=	ثر المرحلة الانتقالية في محاربة السياسة الاستبدادية			20
	=	الميدان النفسي			21
	=	الميدان الاجتماعي			22
	=	الدين والدولة			23
	=	الثقافة والعالم وعسكرة المجتمع			24
	=	أهم آثار القمع والحروب التي حصلت في			25

			ظل النظام البعثي على البيئة والسكان		
26			استعمال الأسلحة المحرمة دوليا والتلوث البيئي في ظل النظام البعثي	=	
27			سياسة الأرض المحروقة في ظل النظام البعثي	=	
28			تجفيف الأهوار والهجرة القسرية في ظل النظام البعثي	=	
29			تدمير البيئة الزراعية والحيوانية والتلوث الاشعاعي في ظل النظام البعثي	=	
30			المقابر الجماعية وقصف دور العبادة في ظل النظام البعثي	=	

14.Course Evaluation

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

15.Learning and Teaching sources

Required textbooks (curricular books, if any)	• منهاج جرائم حزب البعث البائد 2023 / دائرة الدراسات والتخطيط والمتابعة
Main references (sources)	• التأسيس المعرفي لدراسة جرائم حزب البعث في العراق/ د. قيس ناصرو الأستاذ عبد الهادي معتوق • (حول جرائم الحرب وجرائم ضد السلم والإبادة العنصرية / جرجيس فتح الله • بعث صدام رؤية من داخل نظام استبدادي / يوسف ساسون
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	(1كيف ننسى وهذه جرائهم / محمد الصالح الصديق

(2)محاضرات في الحرية والديمقراطية / د. ولاء مهدي الجبوري **(3) الحماية الدستورية للحقوق والحريات / د. أحمد فتحي سرور**	