



جامعة الكفيل
University of Alkafeel

College of Medicine

**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
2023-2024**

Introduction:

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

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

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, semester), as well as the adoption of the academic program description circulated according to the letter of the Ministry of Higher Education and Scientific Research/ Department of Studies T 3/2906 on 3/5/2023.

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

Concepts and terminology:

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

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

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

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

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

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

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

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

Academic Program Description Form

University Name: University of Alkafeel
Faculty/Institute: College of Medicine
Year moderator: Fatima Kareem Khalaf
Academic or Professional Program Name: Year Two/ M.B.Ch.B
Final Certificate Name: MBChB
Academic System: Courses/semesters
Description Preparation Date: 2023-2024
File Completion Date: October 2023

Signature:
Year moderator
Ali Najeh Ali
Date:

Signature:
Scientific Associate
Fatima Kareem Khalaf
Date:

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

Date:
Signature:

Approval of the Dean

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

5. Other external influences

Is there a sponsor for the program?

Ministry of Higher Education– Private Education Department

Higher Education Authority– Attabah Abbasia

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	2	21		Guidance (optional)
College Requirements	1			ECPD (Basic)
Department Requirements	--	--	--	
Summer Training	Yes	--	--	
Other				

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

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
Year Two/ 2 semesters	PHY002	Physiology	4	2
	AN002	Anatomy	3	4
	CH002	Chemistry	2	2
	EMB002	Embryology	2	--
	HIS002	Histology	2	2
	ECPD002	ECPD	1	4
	EG002	Educational Guidance	1	--
	DEM002	Democracy	1	--
	CB002	Crimes of Baath Party	1	--

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.
Medical Terminology	Become proficient in medical terminology to accurately document and discuss patient conditions.
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	
<ol style="list-style-type: none"> 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. Student selected components (SSC)
11. Interactive learning activities (ILA)

10. Evaluation methods

1. Homework and individual and group reports
2. Formative and summative quizzes
3. Practical lab assessment
4. Clinical skill assessment
5. Student selected component
6. Midterm and end of term exams

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
A.P. Samer Makki Mohammed		✓			✓	
A.P. Hilal Alsaffar		✓			✓	
A.P. Ali Najih Ali		✓			✓	

T. Dr. Fatima Kareem Khalaf		✓			✓	
T. Dr Hayder Sahib Mahdi		✓			✓	
T. Dr Firas Fadhil Mohamed		✓			✓	
P. Abdulkareem Abdalla		✓			✓	
A.T. Qusay Mohsin Kadhim		✓			✓	
Dr. Farah Abdulhussein Kadhim		✓			✓	
A.P. Ahmed Naseer Kaftan		✓				✓
A.P. Rasha Hatem Saeed Dosh		✓				✓
A.P. Hasanat Abdulrazzaq		✓				✓
A.T. Soror Mohammed Hadi		✓			✓	
A.T. Huda Falah Judi		✓			✓	
A.T. Ameer kadhim		✓			✓	
Dr. Qasim M. Obaid		✓			✓	
A.T. Zahraa M. Mashkor		✓			✓	
A.P. Ali J. Ramadhan		✓				
A.T. Alia A. Hussein		✓				
Prof. Ahmed Shakir		✓				
A.T. Yasin Khudhair		✓				
Prof. Ihsam Mohamed Ajeena		✓				✓
A.P. Falah Mahdi Dananah		✓				✓
A.P. Habeeb Shubaib Ahmed		✓				✓

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 Associate Dean, 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 Al-Kafeel University and its Faculty of Medicine.
4. Billboards installed in the college corridors.

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	A4	B1	B2	B3	B4	C1	C2	C3	C4
Year Two	EMB002	Embryology	Basic	/	/	/		/	/	/		/	/	/	
	AN002	Anatomy	Basic	/	/	/		/	/	/		/	/	/	
	CH002	Chemistry	Basic	/	/	/		/	/	/		/	/	/	
	HIS002	Histology	Basic	/	/	/		/	/	/		/	/	/	
	PHY002	Physiology	Basic	/	/	/		/	/	/		/	/	/	
	DEM002	Democracy	Optional			/				/					/
	CB002	Crimes of Baath	Optional				/				/				/
	ECPD002	ECPD	basic				/				/				/

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

Course Description Form

1. Course Name:	
Clinical chemistry	
2. Course Code:	
CH002	
3. Semester / Year:	
First and Second semester/ 2023–2024	
4. Description Preparation Date:	
October 2023	
5. Available Attendance Forms:	
Lectures and practical labs	
6. Number of Credit Hours (Total) / Number of Units (Total)	
75T+ 60 P (7 Credits)	
7. Course administrator's name (mention all, if more than one name)	
Name: Hasanat Abdulrazzaq Ahmed Naseer Kaftan Huda Falah Judi Email: hasanata.baqir@uokufa.edu.iq ahmedn.kaftan@uokufa.edu.iq huda.f.joodi@alkafeel.edu.iq	
8. Course Objectives	
Course Objectives	<p>Upon successful completion of this course, students will be able to:</p> <ul style="list-style-type: none"> • 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. • Identify potential clinical significance of abnormal laboratory results in different disease contexts. • Explain the role of enzymes in metabolism and discuss the consequences of enzyme deficiencies. • Apply acquired knowledge to analyze case studies and clinical scenarios involving disorders related to the focus areas.
9. Teaching and Learning Strategies	
Strategy	<p>This course will combine lectures, discussions, case studies, and laboratory exercises to provide students with a comprehensive understanding of clinical chemistry and its significance in the diagnosis and management of human diseases..Additionally, the course will</p>

incorporate laboratory sessions, allowing students to gain practical experience with basic biochemical techniques

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			Carbohydrate disorder : hyperglycemia, diabetes mellitus and hypoglycemia	Lectures	Quizzes 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	=	

11. Course Evaluation

For each semester: Evaluation semester 100%

10 % Grades quizzes and practical exams,

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 (curricular books, if any)	<ul style="list-style-type: none"> • Clinical Chemistry & Metabolic Medicine. Martin Crook • Clinical Biochemistry (Lecture Notes), Peter Rae
Main references (sources)	<ul style="list-style-type: none"> • 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:					
Anatomy					
2. Course Code:					
AN002					
3. Semester / Year:					
First and Second semester/ 2023–2024					
4. Description Preparation Date:					
October 2023					
5. Available Attendance Forms:					
Lectures and practical labs					
6. Number of Credit Hours (Total) / Number of Units (Total)					
90 T + 120 P (10 Credits)					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr. Munqith Mazin Almahmood Email: Munqithm.almahmood@uokufa.edu.iq					
8. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> 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					
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			Skull anatomy	Lecture	Quizzes Reports Practical exams Midterm Exams Final Exams
2			Face and scalp	=	
3			Temporal region	=	
4			Infratemporal Fossa and TMJ	=	
5			Orbit and eye	=	
6			Nose and paranasal sinuse	=	

7			Oral Cavity and Salivary Glands	=
8			Ear anatomy	=
9			Fascial Compartments of Neck	=
10			Triangles and Muscles of Neck	=
11			Thyroid Gland, Trachea and Pharynx	=
12			Larynx and Innervation of Neck	=
13			Blood Vessels and Lymphatics of the Neck	=
14			Root of the neck	=
15			Cranial Cavity and Gross Anatomy of Nervous system	=
16			Meninges and Dural Venous Sinuses	=
17			Cerebral Cortex and Functional Localization	=
18			Cerebral medullary center (white matter)	=
19			Brain Ventricles and CSF	=
20			Diencephalon	=
21			Brain stem	=
22			cerebellum	=
23			Limbic System and Reticular Formation	=
24			Spinal cord	=
25			Sensory and motor pathways	=
26			Cross Sectional Anatomy and Blood Supply of the Brain	=

11. Course Evaluation

For each semester: Evaluation semester 100%
 10 % Grades quizzes and practical exams,
 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 (curricular book any)	<ol style="list-style-type: none"> 1. Clinical Anatomy by Regions (Snell) 2. Clinically Oriented Anatomy (Moore) 3. Gray's Anatomy for Students
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Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	<p>[1] TeachMeAnatomy - Making Anatomy Simple</p> <p>[2] Home Anatomy.app Learn anatomy 3D models, articles, and quizzes</p> <p>[3] Human Anatomy Explorer Detailed 3D anatomical illustrations (innerbody.com)</p>

Course Description Form

1. Course Name:	
Histology	
2. Course Code:	
HIS002	
3. Semester / Year:	
First and Second semester/ 2023–2024	
4. Description Preparation Date:	
October 2023	
5. Available Attendance Forms:	
Lectures and practical labs	
6. Number of Credit Hours (Total) / Number of Units (Total)	
120 hours (60T, 60P)/ 6 credits	
7. Course administrator's name (mention all, if more than one name)	
Name: Rasha Hatem Saeed Dosh Email: Rasha.dosh@uokufa.edu.iq	
8. Course Objectives	
Course Objectives	<p>The course is designed to enable the student to:</p> <ol style="list-style-type: none"> 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	Unit or subject name	Learning method	Evaluation method
1			Introduction to Histology.	Lectures Laboratory	Quizzes Reports Practical exams Midterm Exams Final Exams
2			Specializations of the cell surface. Epithelial tissue and Glandular epithelia.	=	
3			Connective tissue: ground substance, fibers and cells of connective tissue.	=	
4			Cartilage; hyaline, elastic & fibrocartilage.	=	
5			Muscle tissue	=	
6			Nervous system	=	
7			Respiratory system	=	
8			Midterm examination	=	
9			Midterm examination	=	
10			Cardiovascular system.	=	
11			Hematopoiesis and blood.	=	
12			Lymphatic system	=	
13			Lymphatic system	=	
14			Final examination	=	
15			Final examination	=	
16			Urinary system	=	
17			Integumentary system:	=	
18			Endocrine system I	=	
19			Endocrine system II	=	
20			Introduction to GIT.	=	
21			Histology of liver lobules and triad, pancreas and gall bladder.	=	
22			Midterm examination	=	
23			Midterm examination	=	
24			Male reproductive system	=	

25			Female reproductive system	=	
26			Organ of special senses eye	=	
27			Organ of special senses ear	=	
28			Overview	=	
29			Final examination	=	
30			Final examination	=	

11. Course Evaluation

For each semester: Evaluation semester 100%

10 % Grades quizzes and practical exams,

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 (curriculum books, 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 books and references (scientific journals, reports...)

Electronic References, Website

- [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.

Course Description Form

1. Course Name:	
Embryology	
2. Course Code:	
EMB002	
3. Semester / Year:	
One semester / 2023–2024	
4. Description Preparation Date:	
October 2023	
5. Available Attendance Forms:	
Lectures and practical labs	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours / 2 credits	
7. Course administrator's name (mention all, if more than one name)	
Name: Firas F M Al-Masoody Email: Firas.almasoody@alkafeel.edu.iq	
8. Course Objectives	
Course Objectives	The objectives of teaching embryology are as follows: <ul style="list-style-type: none"> • Understanding the stages of human fetal development from the moment of fertilization to birth. • Understand how the body's organs are formed, including internal and external organs. • Understanding how congenital malformations 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

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			Introduction to Medical Embryology.	Lecture	Quizes Midterm Exams Final Exams
2			Gametogenesis- Oogenesis and Spermatogenesis.	=	
3			First Week of Development.	=	
4			Ovulation to Implantation.	=	
5			Second Week of Development- Bilaminar Germ Disc.	=	
6			Third Week of Development- Trilaminar Germ Disc.	=	
7			Third -Eighth Week of Development	=	
8			The Embryonic Period.	=	
9			9 th week to Birth-The Fetal Period.	=	
10			Development of the Gut Tube and Body Cavities.	=	
11			Development of the Placenta and Fetal membranes.	=	
12			Development of the Respiratory System- Formation of Lung Buds.	=	
13			Development of the Cardiovascular System-Part I	=	
14			Development of the Cardiovascular System-Part II	=	
15			Development of the Digestive System- Part I	=	
16			Development of the Digestive System- Part I	=	
17			Development of the Urinary System	=	
18			Development of the Genital System	=	

19			Clinical Aspects of Urogenital System.	=	
20			Development of the Head and Neck.	=	
21			Derivatives of the Pharyngeal Arches, Pouches, and Clefts	=	
22			Development of the Skeletal System.	=	
23			Birth Defects	=	
24			Prenatal Diagnosis	=	
25			Development of the Integumentary System.	=	
26			Development of the Ear.	=	
27			Development of the Eye.	=	
28			Development of the Nervous System.	=	
29			Development of the Brain (Hindbrain, Midbrain, and Forebrain).	=	
30			Development of the Spinal Cord and Peripheral nervous system.	=	

11. Course Evaluation

For each semester: Evaluation semester 100%
 10 % Grades quizzes exam,
 20 % Grades theoretical mid-semester,
 70% Grades final semester (theory exam)

12. Learning and Teaching Resources

Required textbooks (curriculum books, if any)	<ol style="list-style-type: none"> 1. Langman's Medical Embryology_T W Sadler & Jan Langman-13th edition. 2. Larsen's Human Embryology 6th Edition. 3. BEFORE WE ARE BORN. ESSENTIALS OF EMBRYOLOGY AND BIRTH DEFECTS- 9th edition.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Website	<ul style="list-style-type: none"> • Additional resources are provided in each lecture separately if required.

Course Description Form

1. Course Name:	
Physiology	
2. Course Code:	
PHY002	
3. Semester / Year:	
First and Second semester/ 2023–2024	
4. Description Preparation Date:	
October 2023	
5. Available Attendance Forms:	
Lectures and practical labs	
6. Number of Credit Hours (Total) / Number of Units (Total)	
120 hours (120T, 60P) / 10 credits	
7. Course administrator's name (mention all, if more than one name)	
Dr. Ali Najih Alawadi Dr. Firas Al-Masoody Dr. Ihsan Ajeenah Dr. Falah Dananh Dr. Hilal Alsaffar Dr. Falah Delli Dr. Fatima Albakaa	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • 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	Unit or subject name	Learning method	Evaluation method
1-4			Physiological functions of the lungs, Process of respiration: mechanics of breathing. Lung volumes and capacities. Compliance of the lung, role of surfactant. Pulmonary and alveolar ventilation. Transport of O ₂ by the blood. Transport of CO ₂ by the blood. Role of the respiratory system in acid- base regulation. Regulation of breathing: voluntary and involuntary control. Regulation of breathing: ventilatory responses to CO ₂ rise and O ₂ lack.	Lecture	Quizzes Midterm Exams Final Exams

5-9			<p>Functional design of cardiovascular structure of the heart and blood vessels.</p> <p>Properties of cardiac muscle- autorhythmicity and conductivity.</p> <p>Properties of cardiac muscle- contractility & refractory characteristics.</p> <p>Electrophysiology of the heart (ECG).</p> <p>Mechanical events in cardiac cycle.</p> <p>Heart sounds and murmurs.</p> <p>Cardiac output.</p> <p>Work and efficiency of the heart.</p> <p>Vascular system-condition of flow & pressure.</p> <p>0. Blood pressure and its regulation</p> <p>1. Circulatory regulation, general nervous & local peripheral mechanisms.</p> <p>2. Circulation through special regions; coronary, skeletal muscle.cerebraland skin circulation.</p> <p>3. Cardiovascular hemostasis, cardiac insufficiency, shock, and postural changes.</p> <p>4. Starling forces across capillary beds.</p> <p>Venous pressure and flow</p>	=	
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10-12			<p>Renal circulation and glomerular filtration.</p> <p>Tubular reabsorption.</p> <p>Tubular secretion.</p> <p>Water excretion by the kidneys.</p> <p>Role of the kidney in electrolytes balance.</p> <p>Renal mechanisms of acidification of urine and its significance in the regulation of pH.</p> <p>Regulation of body fluid volume.</p> <p>Renal disease and diuresis.</p> <p>Renal function test.</p>	=	
13-15			<ol style="list-style-type: none"> 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			<p>Gastrointestinal anatomy and general principles of its physiology.</p> <p>Saliva and swallowing</p> <p>Stomach motility and secretion.</p>	=	

			<p>Small intestine motility</p> <p>Small intestine secretion.</p> <p>Large intestine motility and secretion.</p> <p>Pancreas.</p> <p>Liver.</p>		
19-21			<p>Generation of membrane potential of nerve cell.</p> <p>Excitation and conduction.</p> <p>Nerve action potential.</p> <p>Electrogenesis of the action potential.</p> <p>Orthodromic and antidromic conduction - properties of mixed nerves.</p> <p>Skeletal muscles</p> <p>The contractile response - muscle twitch.</p> <p>Properties of skeletal muscles in the intact organism - motor units.</p> <p>Energy source and metabolism.</p> <p>0. Strength-duration curve - cardiac muscle.</p> <p>1. The smooth muscles.</p> <p>2. The neuromuscular junction.</p> <p>3. Autonomic nervous system, anatomical consideration - sympathetic and parasympathetic nervous systems.</p> <p>4. Types of autonomic innervation and reflex arc.</p>	=	

			<p>5. Higher autonomic centers and neurotransmitters in autonomic nervous systems.</p> <p>6. Physiology of micturition.</p>	
22-25			<p>General sensation.</p> <p>Tactile vibration and position senses.</p> <p>Pain sensation.</p> <p>Spinal cord pathway and reflexes.</p> <p>Spinal cord transaction.</p> <p>Thalamus central representation of sensation</p> <p>Reticular activating system.</p> <p>Sleep and electroencephalography.</p> <p>Motor cortex and motor pathway.</p> <p>0. Basal ganglia.</p> <p>1. Cerebellum.</p> <p>2. Language learning and memory.</p> <p>3. Cerebrospinal fluid.</p> <p>Limbic system.</p>	=
26-28			<p>Hypothalamic hormones.</p> <p>Posterior pituitary gland hormones.</p> <p>Anterior Pituitary gland hormones.</p> <p>Growth hormone.</p> <p>Thyroid gland hormones.</p> <p>Hypo and hyperthyroidism.</p> <p>Ca²⁺ metabolism, vitamin D.</p>	=

			<p>Ca²⁺ metabolism, Parathyroid hormone.</p> <p>Pancreatic hormones (insulin) & (Glucagon)</p> <p>0. Diabetes Mellitus.</p> <p>1. Metabolic syndrome.</p> <p>2. Hypoglycemia.</p> <p>3. Adrenal gland: Anatomy and physiology.</p> <p>4. Mineralocorticoids and glucocorticoids.</p> <p>5. Catecholamines.</p> <p>6. Male reproductive system</p> <p>7. Female reproductive system</p> <p>8. Physiology of pregnancy</p>		
29-30			<p>Visual sensation.</p> <p>Hearing sensation.</p> <p>Vestibular Function.</p> <p>Taste.</p> <p>Smell.</p>	=	

11. Course Evaluation

For each semester: Evaluation semester 100%
 10 % Grades quizzes and practical exams,
 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 (curriculum books, if any)	<ol style="list-style-type: none"> 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 books and references (scientific journals, reports...)	
Electronic References, Website	Additional resources are provided in each lecture separately if required.

Course Description Form

1. Course Name:					
ECPD 2					
2. Course Code:					
ECPD002					
3. Semester / Year:					
Annual program					
4. Description Preparation Date:					
2023-2024					
5. Available Attendance Forms:					
Class + Skill Lab+ Hospital visits					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30 theory lectures+ 60 Practical sessions = 3 Credit Points					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr Hayder Sahib Mahdi Email: h.mayali@alkafeel.edu.iq					
8. Course Objectives					
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 communities.				
9. Teaching and Learning Strategies					
Strategy	1) Theory lectures as LGT to cover the knowledge of the clinical aspects 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.				
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			ECPD Introduction & Plans	LGT	Quizzes
2			Basic Principles of History Taking	SGT ILA session	Mid-year Exams OSCE exams Final Exams

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			Evidence-Based Medicine (Basic Concept)		
14			Epidemiology and Public Health		
15			(Infection Control and Prevention)		
16			OSCE Preparation		
17			Medical Negligence and Malpractice		
18			Human Rights and Medical Practice		
19			Role of AI in Modern Medical Practice		
20			Concept Map (Role in Medical Teaching)		
21			Principles of Community Follow up		
22			Principles of Reflection and Feedback in the Medical Practice		
23					
24					
25					

26			Medical Career Management		
27					
28			Basic Considerations in Prescribing Medications.		
29			<i>Practical Sessions</i>		
30			History taking		
			General examination		
			Vital signs		
			Investigations (Glucometer/swabs)		
			Basic procedures.		

11. Course Evaluation

Mid-year exam (20 marks) / Practical sessions (OSCE) – 10 marks

The final exam (70 marks)/ 50 marks theoretical and 20 marks clinical assessment

12. Learning and Teaching Resources

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

1. Course Name:					
Crimes of Baath Party					
2. Course Code:					
CB002					
3. Semester / Year:					
1 st and 2 nd / 2023-2024					
4. Description Preparation Date:					
October 2023					
5. Available Attendance Forms:					
Lectures					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30 Hours/ 2 credits					
7. Course administrator's name (mention all, if more than one name)					
Name: Haider Jasim Muhammad Hussein Hanoon Email: haider.hanoon@alkafeel.edu.iq					
8. Course Objectives					
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 إمام الطالب بأهم آثار القمع والحروب التي حصلت في ظل النظام البعثي على البيئة والسكان			
9. Teaching and Learning Strategies					
Strategy		تهتم هذه المادة بدراسة حقبة مرت على الدولة العراقية عُرف عنها انتهاكها لحقوق الإنسان وارتكابها لجرائم ضد الإنسانية واشتهارها بحقبة المقابر والإبادة الجماعية وإعدامات المدنيين والعسكريين			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			لحة عن الأنظمة السياسية في العراق		
2			انتهاكات النظام البعثي للحقوق والحريات العامة		
3			انتهاكات 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		
11			اسقاط الجنسية في ظل النظام البعثي		
12			أثر سلوكيات النظام البعثي في المجتمع، وتسلمه على الدولة		
13			انتهاك حقوق الإنسان من خلال الاعتقالات العشوائية وتعذيب السجناء		
14			انتهاك حقوق الإنسان من خلال إعدام العسكريين والمدنيين		
15			الفصل بين السلطات في ظل النظام البعثي		
16			حصر السلطات الثلاث بيد النظام البعثي		
17			انتهاك السلطة التشريعية في ظل النظام البعثي		
18			انتهاك السلطة التنفيذية في ظل النظام البعثي		
19			انتهاك السلطة القضائية في ظل النظام البعثي		
20			أثر المرحلة الانتقالية في محاربة السياسة الاستبدادية		
21			الميدان النفسي		
22			الميدان الاجتماعي		
23			الدين والدولة		
24			الثقافة والإعلام وعسكرة المجتمع		
25			أهم آثار القمع والحروب التي حصلت في ظل النظام البعثي على البيئة والسكان		
26			استعمال الأسلحة المحرمة دولياً والتلوث البيئي في ظل النظام البعثي		
27			سياسة الأرض المحروقة في ظل النظام البعثي		
28			تجفيف الاهوار والهجرة القسرية في ظل النظام البعثي		
29			تدمير البيئة الزراعية والحيوانية والتلوث الإشعاعي في ظل النظام البعثي		
30			المقابر الجماعية وقصف دور العبادة في ظل النظام البعثي		

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	منهاج جرائم حزب البعث البائد 2023 / دائرة الدراسات والتخطيط والمتابعة
Main references (sources)	(1) التأسيس المعرفي لدراسة جرائم حزب البعث في العراق / د. قيس ناصر والأستاذ عبد الهادي معتوق (2) حول جرائم الحرب وجرائم ضد السلم والإبادة العنصرية / جرجيس فتح الله (3) بعث صدام رؤية من داخل نظام استبدادي / يوسف ساسون
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	(1) كيف ننسى وهذه جرائمهم / محمد الصالح الصديق (2) محاضرات في الحرية والديمقراطية / د. ولاء مهدي الجبوري (3) الحماية الدستورية للحقوق والحرريات / د. أحمد فتحي سرور

Course Description Form

1. Course Name:					
Democracy					
2. Course Code:					
DEM002					
3. Semester / Year:					
Second semester					
4. Description Preparation Date:					
October 2023					
5. Available Attendance Forms:					
lectures					
6. Number of Credit Hours (Total) / Number of Units (Total)					
15 hours/ 1 credit					
7. Course administrator's name (mention all, if more than one name)					
Name: Ahmed Ali Abboud Al Khafaji Email: ahmadali.alkhafajy@alkafeel.edu.iq					
8. Course Objectives					
Course Objectives		تهدف هذه المادة إلى تعريف الطالب بأوضاع حقوق الإنسان في الحضارات القديمة والأديان السماوية ، وأن يدرس كيفية معالجة الدين الإسلامي الحنيف لحقوق الإنسان الدينية والدنيوية ، وبيان أن الإسلام العظيم قد منح الفرد حقوقا كثيرة وعظيمة قبل ولادته وبعد وفاته ، وهو الأمر الذي لا نجده في بقية الحضارات القديمة والحديثة			
9. Teaching and Learning Strategies					
Strategy		أن يتعرف الطالب على حقوق الإنسان في الحضارات القديمة ، حقوق الإنسان في الدين اليهودي و الدين المسيحي ، حقوق الإنسان في الدين الإسلامي ، وثائق حقوق الإنسان القديمة ، إعلان حقوق الإنسان والمواطن الفرنسي لعام 1789 ، حقوق الإنسان في المنظمات الدولية			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1		حقوق الإنسان في إعلانات الحقوق والوثائق الإقليمية	Lecture	
2	1		إعلانات الحقوق الوطنية والعالمية	=	

3	1	حقوق الإنسان في الدساتير العراقية	=	
4	1	الحقوق والحريات العامة التقليدية	=	
5	1	الحقوق والحريات الشخصية	=	
6	1	الحقوق والحريات الفكرية	=	
7	1	حق المشاركة في الشؤون العامة	=	
8	1	الحق في المساواة	=	
9	1	الحريات الاقتصادية والحقوق الاجتماعية	=	
10	1	الحريات الاقتصادية	=	
11	1	الحقوق الاجتماعية	=	
12	1	الوسائل القانونية لحماية حقوق الإنسان	=	
13	1	الوسائل الدستورية لحماية حقوق الإنسان	=	
14	1	التشريع العادي لحماية حقوق الإنسان	=	
15	1	الوسائل القضائية لحماية حقوق الإنسان	=	

11. Course Evaluation

Mid semester 30 Marks
and final semester examination 70 Marks

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	حقوق الإنسان / د. حميد حنون خالد
Main references (sources)	(1) حقوق الإنسان / د. رياض عزيز هادي (2) الحماية الدستورية للحقوق والحريات / د. احمد فتحي سرور (3) دعائم الحكم في الشريعة الإسلامية والنظم الدستورية المعاصرة / د. إسماعيل إبراهيم بدوي
Recommended books and references (scientific journals, reports...)	<u>المراجع المساعدة:</u> (1) حقوق الإنسان بين الشريعة والقوانين الوضعية / د. علي يوسف الشكري (2) محاضرات في الديمقراطية / د. فيصل شنتاوي (3) محاضرات في الحرية والديمقراطية / د. ولاء مهدي الجبوري
Electronic References, Websites	