

**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

2024

Academic Program Description Form



University Name: Alkafeel

Faculty/Institute: College of Health & Medical Technology

Scientific Department: Medical Laboratory Techniques

Academic or Professional Program Name: B.Sc.

Final Certificate Name: B.sc. of Medical Laboratory Techniques

Academic System:

Description Preparation Date:

File Completion Date: 05/09/2024

Signature:

Head of Department Name:

Assist. Prof. Ameer S. Y. Al-Ethari

Date:

Signature:

Scientific Associate Name:

Assist. Prof. Dr. Sddiq Ghani Joda

Al-Mohanna

Date:

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance

Department: Zaman Abdulhusain Ibadi

Date:

Signature:

Approval of the Dean

Introduction:

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

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

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

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:

Faculty/Institute:

Scientific Department:

Academic or Professional Program Name: Medical terminology and anatomy
.....

Final Certificate Name:

Academic System:

Description Preparation Date:

File Completion Date: \ \2024

Signature:

Head of Department Name:

Date:

Signature:

Scientific Associate Name:

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

The medical terminology and anatomy program must be comprehensive and integrated to develop students' skills in knowing all medical terminology related to their professional career. Through the diversity of educational methods and the enhancement of basic skills

2. Program Mission

Providing a supportive and inspiring educational environment to develop students' medical terminology and anatomy skills. We strive to provide a fun and engaging learning experience that encourages innovation and critical thinking. Through a variety of educational methods and innovative technology, we seek to enable students to understand and communicate with the community.

3. Program Objectives

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

4. Program Accreditation

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

5. Other external influences

Is there a sponsor for the program?

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
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Institution Requirements	2	2 Theory and 3 Practical	100%	
College Requirements				
Department Requirements				
Summer Training	Found			
Other				

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

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
Year			Theoretical	practical

8. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	Learning Outcomes Statement 1
Skills	
Learning Outcomes 2	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Learning Outcomes 4	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

9. Teaching and Learning Strategies

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.

10. Evaluation methods

Implemented at all stages of the program in general.

11. Faculty

Faculty Members

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

Professional Development

Mentoring new faculty members

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

Professional development of faculty members

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

12. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

13. The most important sources of information about the program

State briefly the sources of information about the program.

14. Program Development Plan

By Practice and theory lecturer

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															

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

Course Description Form

1. Course Name: Medical terminology + Anatomy
2. Course Code:
3. Semester / Year: Semester
4. Description Preparation Date: 20\3\2024
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total) 7

7. Course administrator's name (mention all, if more than one name)	
Name: Zahraa Abdulsalam Hussein Email: zahraa.abdulsalam@alkafeel.edu.iq	
8. Course Objectives	
Course Objectives	• To learn new medical terminology..... • To learn anatomy of human body..... • To learn anatomical features.....
9. Teaching and Learning Strategies	
Strategy	
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			Subject Lab. Introduction to anatomy and human body, levels of organization ,anatomical position ,body regions and cavities ,body planes and sections ,directional terms 1 Tissues and membranes		

			2 Upper limb ,lower limb ,thorax		
			3 Abdomen ,pelvis ,head and neck		
			4 Musculoskeletal system: Bones ,joints and muscl		
			5 Digestive system Digestive tract ,Accessories and glands		
			6 Cardiovascular system: heart , blood vessels.		
			7		

			lymphatic system 8		
			Respiratory system 9		
			Nervous system: central nervous system ,peripher nervous system 10		
			Endocrine system 11		
			Special senses 12		
			Urinary system 13		
			Reproductive system 14		
			Gynecology, pregnancy		

			childbirth Embryology, Childhood, grow and developme		
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)			Nitter anatomy text book		
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites			All the scientific site on internet		

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

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

Course Description Form

13.	Course Name: English Language
14.	Course Code:
15.	Semester / Year: first year first semester
16.	Description Preparation Date:
17.Available Attendance Forms:	
18.Number of Credit Hours (Total 45) / Number of Units (Total 15)	

19. Course administrator's name (mention all, if more than one name)	
Name: Email:	
20. Course Objectives	
Course Objectives	• Language Proficiency: ○ Develop proficiency in listening, speaking, reading, and writing skills in English. ○ Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. • Vocabulary and Grammar: ○ Expand vocabulary knowledge and use a wide range of vocabulary appropriately in various contexts. ○ Apply grammatical structures accurately and effectively in spoken and written communication. • Reading Comprehension: ○ Improve reading comprehension skills by understanding and interpreting a variety of English texts, including fiction, non-fiction, and academic articles. ○ Identify main ideas, supporting details, and implied meanings in English texts. • • •

21. Teaching and Learning Strategies	
Strategy	1. Communicative Language Teaching (CLT): • Emphasizes real-life communication and interaction in English through activities such as role-plays, discussions, and problem-solving tasks. • Focuses on meaningful language use in authentic contexts to develop speaking and listening skills. 2. Task-Based Learning: • Incorporates tasks and projects that require students to use English to accomplish specific goals or solve real-world problems. • Promotes language production and integration of language skills through hands-on, experiential learning activities. 3. Differentiated Instruction: • Tailors instruction to meet the diverse needs, learning styles, and proficiency levels of students.

22. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
23. 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					
24. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)					

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															

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

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

Course Description Form

25.	Course Name: Histopathology
26.	Course Code:
27.	Semester / Year: year
28.	Description Preparation Date: 15/3/2024
29. Available Attendance Forms: 15/3/2024	
30. Number of Credit Hours (Total) / 2 theory and 3 practice Number of Units (Total) 7	
31.	Course administrator's name (mention all, if more than one name)
Name: Ali Abdul razak Alsaeeh Email: Ali.alsaeeh@ Alkafeel.edu.iq	
32.	Course Objectives
Course Objectives	*to learn change disease. *TO learn how to diagnosis the cell disease *to learn how to make the slide disease •
33.	Teaching and Learning Strategies
Strategy	
34. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
30	5	Scrin. laborato	1-cell 2-acute inflammation 3-chronic inflammation 4-repair,healing , .regeneration 5-degeneration 6-Atrophy, necrosis 7-Gangren 8Diagnosis cancer change in cytoplasm in malignant cancer -change in cell in malignancy 1-Numenclatuer of tumor 12-classification of tumor 13-fixation 14-special stain 15-tissue process -Facter influent rat of impregnation -Microtom and paraffin section 18-staning tissue 19-specail stain 20-bon section -Demonstration of toplasm granule organells and secial tissue -neuropathological tech. niques -Enzyme histochemistry and application -immunohistochemistery and application 25-resin embedded media		

			26-Electron microscop 27-Electron micro.use Histometry and diagnosis use 9-Immunofluorescence tech. 30-Museum and oth		
35. Course Evaluation=10 for day examin, 15 first course,15 second course, 40 final examin.20 practic.					
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					
36. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			Basic pathology text book (roben)		
Main references (sources)			Researched paper,		
Recommended books and references (scientific journals, reports...)			Biochem.cell.Arch Hiv Nursing Alkafeel Cnferance		
Electronic References, Websites			All the scientific site in net.		

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
2024		Immunology	Basic												

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

Course Description Form

37.	Course Name: Practical Immunology
38.	Course Code:
39.	Semester / Year: third year
40.	Description Preparation Date:
41. Available Attendance Forms:	
42. Number of Credit Hours	
43.	Course administrator's name (mention all, if more than one name)
Name: A. Lecturer Mohanad Kadhim Ali Email:	
44.	Course Objectives
Course Objectives	• Language Proficiency: ○ Develop proficiency in listening, speaking, reading, and writing skills in English. ○ Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. • Vocabulary and Grammar: ○ Expand vocabulary knowledge and use a wide range of vocabulary appropriately in various contexts. ○ Apply grammatical structures accurately and effectively in spoken and written communication. • Reading Comprehension: ○ Improve reading comprehension skills by understanding and interpreting a variety of English texts, including fiction, non-fiction, and academic articles. ○ Identify main ideas, supporting details, and implied meanings in English texts. • • •
45.	Teaching and Learning Strategies
Strategy	

	Lectures using the smart board Scientific discussions Practical experiment
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46. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

47. 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

48. Learning and Teaching Resources

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

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				X	X			X	X	X		X	X		

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

Course Description Form

49.	Course Name: General chemistry	
50.	Course Code:	
51.	Semester / Year: year 2024	
52.	Description Preparation Date: 15/3/2024	
53.	Available Attendance Forms: 15/3/2024	
54.	Number of Credit Hours (Total) / 2 theory and 4 practice Number of Units (Total) 6	
55.	Course administrator's name (mention all, if more than one name)	
Name: Abdulhussein jaafer shamsah Email: abdulhussien.shamsa@alkafeel.edu.iq		
56.	Course Objectives	
Course Objectives		- Be able to understand the basic principles of general and life chemistry and its applications - Be able to link the traumatic pain to abnormal changes in other components of the blood and body - Have the ability to collect and treat biological samples
57.	Teaching and Learning Strategies	
Strategy		

58. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
30	80		- Scope of biochemistry in health and disease, cell and cell constituents. Some aspects of physical chemistry, Gas laws, Boyle's law, Graham's Law of diffusion, Dalton's Law of partial pressure, General gas equation, the international system of units. Radio activity and radioactive isotopes Solutions and methods of expressing concentrations colloidal solution. The PH concept, Acid-base balance, chemical equilibrium, common ion effect. Buffer and buffer systems of physiological importance in living systems. Blood, blood constituents, body fluids, regulation of blood Ph and body fluids. Water and electrolyte balance – osmotic pressure of body fluids, control of total electrolytes and body fluids. Carbohydrates classification reactions, main carbohydrates in human body Metabolism of carbohydrates, blood glucose factors controlling glucose level in blood Glucose abnormalities, diabetes mellitus, ketosis, glycosuria, glucose tolerance curve Lipids, classification, derived lipids, compound, lipids Lipid metabolism, lipid abnormalities		

			Proteins, classification, functions, peptide bonds, amino acids, chemical reactions. Nucleic acids and their expression, DNA Replication, Mutation, RNA Topology		
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59. Course Evaluation=10 for day exam, 25 first course, 25 second course, 40 final exam.

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

60. Learning and Teaching Resources

Required textbooks (curricular books, if any)	General Chemistry: Principles, Patterns, and Applications Context4Book
Main references (sources)	General Organic chemistry NE Chemistry
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

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

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

Course Description Form

61. Course Name: Medical Ethics					
62. Course Code:					
63. Semester / Year: first course					
64. Description Preparation Date:					
65. Available Attendance Forms:					
66. Number of Credit Hours (Total 30) / Number of Units (Total 4)					
67. Course administrator's name (mention all, if more than one name)					
Name: Ghadeer Mohammed Hussain Email: ghadeer.mohammed@alkafeel.edu.iq					
68. Course Objectives					
Course Objectives		– Emotional and value goals 1– Listening 2– Answering the questions asked 3– Adherence to lecture times 4– Participation and interaction during the lecture			
69. Teaching and Learning Strategies					
Strategy	Advising and directing students on the necessity of understanding lectures, the importance of focusing on the content of the lessons, making the most of the information provided, and giving the aspect of scientific and academic culture “theory” great importance equal to the practical aspect.				
70. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

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71. Course Evaluation

Score distribution out of 100 according to traditional exams and surprise questions

72. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Professional behavior of doctors by Al-Hakim F Al-Tikriti
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

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

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

Course Description Form

73. Course Name:					
74. Course Code:					
75. Semester / Year:					
76. Description Preparation Date:					
77. Available Attendance Forms:					
78. Number of Credit Hours (Total) / Number of Units (Total)					
79. Course administrator's name (mention all, if more than one name)					
Name:					
Email:					
80. Course Objectives					
Course Objectives			• • •		
81. Teaching and Learning Strategies					
Strategy					
82. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

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83. 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

84. Learning and Teaching Resources

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

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

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

Course Description Form

85. Course Name:					
86. Course Code:					
87. Semester / Year:					
88. Description Preparation Date:					
89. Available Attendance Forms:					
90. Number of Credit Hours (Total) / Number of Units (Total)					
91. Course administrator's name (mention all, if more than one name)					
Name:					
Email:					
92. Course Objectives					
Course Objectives					
93. Teaching and Learning Strategies					
Strategy					
94. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

95. 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					
96. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					

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

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

Course Description Form

97.	Course Name: General Chemistry
98.	Course Code:
99.	Semester / Year: first year first semester
100.	Description Preparation Date:
101.	Available Attendance Forms:
102.	Number of Credit Hours (Total 48) / Number of Units (Total 8)

103. Course administrator's name (mention all, if more than one name)					
Name: Ali Atiyha Abid Email:					
104. Course Objectives					
Course Objectives			Emotional and value goals Participation in scientific activities Participate in scientific discussions		
105. Teaching and Learning Strategies					
Strategy		Theoretical lectures using the smart board Practical Training Scientific discussions			
106. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

107. 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					
108. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)			1. Fundamentals of Analytical Chemistry, ninth edition and Douglas A. Skoog, Donald M. West. 2. Holt Chemistry, R. Thomas Myers, Keith B. Oldham and Salvatore Tocci		
Recommended books and references (scientific journals, reports...)					

Electronic References, Websites	
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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
Fourth		pathohisto logy	Basic				*			*				*	

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

Course Description Form

109.	Course Name: Histology
110.	Course Code:
111.	Semester / Year:
2023/2024	
112.	Description Preparation Date:
3/2023	
113.	Available Attendance Forms:
In presence	
114.	Number of Credit Hours (Total) / Number of Units (Total)
2 T .2 P .5C	

115. Course administrator's name (mention all, if more than one name)

Name: Hameed Abdulhussein mjbel
Email: hameed.altememi@alkafeel.edu.iq

116. Course Objectives

Course Objectives

- Introducing the student to the types of diseases and their basic symptoms
- Classifying these diseases according to their seriousness, studying the mechanism of their spread and prevention, and the reasons that lead to their appearance and development.
- Its effects on the organs of human body, as well as the met

			of examining and diagnosing the diseases.		
117. Teaching and Learning Strategies					
Strategy		1-lecture 2-Brainstorming 3-Strategy for providing examples.			
118. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2 3 4 5 6 7 8	2	Introducing the student to the types of diseases and their basic symptoms	Lung (atelectasias, acute injury) Lung (chronic bronchopulmonary embolism) Lung tumors Kidney (glomerular disease) Kidney (nephrotic syndrome nephropathy (Berger disease) Kidney tumors Cancer of the oral cavity tongue Esophagus (lacivation, var esophageal carcinoma)	Oral and written	lecture

9			Stomach (gastritis, u		
10			carcinoma)		
11			Large intestines (hemorrh		
12			malabsorption syndrome)		
13			Crohn disease		
14			Large intestines tumors		
15					
1			Liver (hepatic infection, fail		
2			cirrhosis)		
3			Hepatic tumors		
4			Gall bladder (cholecys		
5			tumors)		
6			Pancreas (pancreatitis)		
7			Pancreatic neoplasma		
8			Male genital system (testic		
9			atrophy, lesions, neoplasma)		
10			Male genital system (prost		
11			tumors)		
12			Female genital system (cervic		
			tumor of the cervix)		
			Uterus (endomet		
			endometriosis , tumor of		
			uterus)		
			Breast (fibrocystic char		
			tumors of the breast)		

13			Endocrine sys		
14			(hyperpituitarism and pitui		
15			adenoma)		
			Thyroid (thyroiditis, thy		
			neoplasma)		
			Bone tumors		
			Skin (acute eczema		
			dermatitis, psoriasis)		
			Skin tumors		
			Nervous system (brain tumor)		
			Nervous system (diseases of		
			peripheral nervous system)		

119. Course Evaluation

25 T . 15 P . Final 60

120. Learning and Teaching Resources

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

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
Second		Histology	Basic				*			*				*	

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

Course Description Form

121.	Course Name: Histology
122.	Course Code:
123.	Semester / Year:
2023/2024	
124.	Description Preparation Date:
3/2023	
125.	Available Attendance Forms:
In presence	
126.	Number of Credit Hours (Total) / Number of Units (Total)
2 T .2 P . 3C	
127.	Course administrator's name (mention all, if more than one name)
Name: Hameed Abdulhussein mjbel Email: hameed.altememi@alkafeel.edu.iq	
128.	Course Objectives
Course Objectives	• Introducing the student to the basic types of cells. • Classification of these cells according to the study of their shape that makes up those tissues and the basic function of these cells that make up the various tissues and organs of the human body • Examining thin slices of tissue under optical microscope
129.	Teaching and Learning Strategies
Strategy	1-lecture 2-Brainstorming 3-Strategy for providing examples.

130. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Understanding and assimilating the characteristics of normal cells and tissues. Analysis of the functions of tissue and constituent cells. Enable students to compare different cells. Enable the student to describe tissues and their cellular components	Introduction and overview of methods used in histology	Oral and written test	lecture
2			Classification of Histology		
3			Tissue preparation		
4			Overview of Cell structure types		
5			Tissues: Concept		
6			classifications of primary tissues		
7			Epithelial tissue: Simple Epithelium		
8			Compound Ep. T.		
9			The glandular Tissues (Exocrine)		
10			Glands)		
11			Connective and Supportive Tissue: Embryonic and adult		
12			Connective Tissue proper (General C.T.)		
13			Cartilage, Histogenesis, Growth and repair of cartilage		
14			Bone & Histogenesis of Bone		
15			The Blood		
1			The haemopoietic organ (bone marrow), Formation of blood cells.		
2			Muscular tissue		
3			Nervous tissue: Overview of nervous system (CNS & PNS)		
4			Nervous system: the Nerve cells (neurons) and their classification		
5			Supporting cells of nervous system		
6			الفصل الثاني		
7			Circulatory system		
8			Lymphoid system- Lymphatic vessels- Lymph		
9			Lymphoid organs		
10			Respiratory system		
1			Digestive system/ Part one- cavity		
2			Digestive system/ Part two- Gastrointestinal tracts		

11			Digestive system/ Part th		
12			Accessory Glands		
13			8-9 Urinary system		
14			Endocrine system		
15			Male reproductive system		
			Female reproductive system		
			Sense organ		
			The integumentary system- S		

131. Course Evaluation

25 T . 15 P . Final 60

132. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Junqueira's Basic Histology
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

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
2023-2024		Clinical Immunology	Basic	*	*	*	*	*	*	*	*				

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

Course Description Form

133. Course Name:	
Clinical Immunology	
134. Course Code:	
135. Semester / Year:	
2023-2024	
136. Description Preparation Date:	
16/3/2024	
137. Available Attendance Forms:	
Theoretical and practical	
138. Number of Credit Hours (Total) / Number of Units (Total)	
6 hours weakly (180 hours yearly)	
139. Course administrator's name (mention all, if more than one name)	
Name: L. Dr. Mohammed Jaafar Mohammed Hassan Email: mohammed.alanssari@alkafeel.edu.iq	
140. Course Objectives	
Course Objectives	Overall goal: • • Introducing the student to clinical immunology • • Its uses • • Its modern divisions • • And some common diseases • • Its diagnostic methods • • Treatment mechanisms Own goal: • • That the student be able to define clinical immunology • • To determine the immune mechanism responsible for the pathogenesis of common immune diseases.

- • To distinguish the different diagnostic methods as well as the important differential tests for each disease

141. Teaching and Learning Strategies

Strategy

Knowledge and understanding
The student learns about advanced technologies and everything related to them

Subject-specific skills
1- The student conducts tests and analyzes in the laboratory

Teaching and learning methods
1- Presentation
2-Blackboard
3- Educational videos on the university's website
4- Smart screen
5- Devices for some analyses
6- Summer training in hospitals

Evaluation methods
1- Daily paper exams
2-Oral exams
3-Questionnaires
4-Discussions
thinking skills
1- Involving the student in a practical way in explaining the material
2-Use brainstorming
3-Using the method of discussion and dialogue between students

142. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Lear ning met hod	Evaluati on method
1	2 Theory	Rheumatic Diseases Rheumatoid Arthritis			

	+4 Practice				
2	2 Theory +4 Practice	Systemic Lupus Erythmatosus			
3	2 Theory +4 Practice	Ankylosing Spondylitis			
4	2 Theory +4 Practice	Sjogren's Syndrome			
5	2 Theory +4 Practice	Behcet's Disease Psoriatic Arthritis			
6	2 Theory +4 Practice	Gastrointestinal and liver disease Gluten sensitive entero-pathy Pernicious Anemia Diabetes mellitus			
7	2 Theory +4 Practice	Ulcerative Colitis Crohn's Disease Helicobacter pylori Mucosa-associated lymphoid tissue lymphoma and Helicobacter pylori-associated diseases			
8	2 Theory +4 Practice	Autoimmune Hepatitis and Autoimmune liver diseases			
9	2 Theory +4 Practice	Primary Biliary Cirrhosis Primary Sclerosing Cholangitis			
10	2 Theory +4 Practice	Renal disease The Immunological Mechanisms that lead to renal disease			

11	2 Theory +4 Practice	1. Circulating immune Complex 2. In situ immune complex Formation b) الأضداد الذاتية المضادة لهيولي والأمراض (ANCA) العدة المرتبطة بها : Antineutrophil Cytoplasmic Autoantibodies and associated diseases			
12	2 Theory +4 Practice	c) T Lymphocyte mediated Renal Injury Immunological Mediators in Acute inflammation			
13	2 Theory +4 Practice	Some Renal disease a) Primary glomerulonephritis 1. Membranous glomerulonephritis (Nephrotic Syndrome)			
14	2 Theory +4 Practice	2. Postinfection Glomerulonephritis 3. IgA Nephropathy			
15	2 Theory +4 Practice	1. Lupus Nephritis 2. Henoch-Schonlein Purpura			
16	2 Theory +4 Practice	Vasculitis-Associated Glomerular Lesion Anti-Glomerular Basement Membrane Disease			
17	2 Theory +4 Practice	Respiratory Diseases: Drug-induced Respiratory disease			
18	2 Theory +4 Practice	4. Eosinophilic Pneumonias 5. Occupational & Environmental lung Diseases			

19	2 Theory +4 Practice	Asthma			
20	2 Theory +4 Practice	Non-Allergic Bronchitis			
21+22	2 Theory +4 Practice	Hypersensitivity Diseases:			
23	2 Theory +4 Practice	Autoimmune Hemolytic Anemia			
24	2 Theory +4 Practice	Eczema and Contact Dermatitis			
25+26	2 Theory +4 Practice	Endocrinology (Immunological Thyroid Diseases , Immunological Infertility and other)			
27+28	2 Theory +4 Practice	Tumors and Tumor Markers			
29+30	2 Theory +4 Practice	Graft versus host rejection and Transplantation			

143. 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

144. Learning and Teaching Resources

Required textbooks (curricular books, if any)

المنهج الوزاري لمادة المناعة السريرية
(مادة تقويمية) المزود عبر الرابط الوزاري

	https://hmt.mtu.edu.iq/e-learning/
Main references (sources)	1. Essential of clinical immunology (Helen chapel 6 edition 2. Basic and clinical immunology (Mark peakman Diego vergani second edition) 3 - color atlas of immunology
Recommended books and references (scientific journals, reports...)	Oxford Handbook of Clinical Immunology and Allergy (Gavin Spickett) Fourth edition
Electronic References, Websites	https://hmt.mtu.edu.iq/e-learning/

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
2023-2024		Diagnostic microbiology	Basic	*	*	*	*	*	*	*	*				

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

Course Description Form

145. Course Name:	
Diagnostic microbiology	
146. Course Code:	
147. Semester / Year:	
2023-2024	
148. Description Preparation Date:	
15/3/2024	
149. Available Attendance Forms:	
Theoretical and practical	
150. Number of Credit Hours (Total) / Number of Units (Total)	
6 hours weakly (180 hours yearly)	
151. Course administrator's name (mention all, if more than one name)	
Name: Hayder Talib Mohammed Ali Al-Hisnawi Email: Hayder.talib@alkafeel.edu.iq	
152. Course Objectives	
Course Objectives	- Identify the most important types of germs that infect various body systems, causing diseases - Knowledge of appropriate methods and procedures for the accurate isolation and diagnosis of various germs - Differentiate between bacterial diseases and other diseases
153. Teaching and Learning Strategies	
Strategy	

	Behavioral change among students through their classroom participation, extracurricular activities, and distribution They take turns during the lecture to achieve their understanding of the vocabulary presented to them during the lesson In addition to using various educational methods to develop their scientific skills and thinking abilities Discussion and conclusion
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154. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 Theory +4 Practice	purpose and philosophy			
2	2 Theory +4 Practice	Laboratory safety			
3,4,5	2 Theory +4 Practice	Selection, collection, and transport of specimens for microbiological examination			
6	2 Theory +4 Practice	Cultivation and Isolation of Viable Pathogen			
7,8,9	2 Theory +4 Practice	Microbiological methods for identification of			

		Microorganisms			
11	2 Theory +4 Practice	-Antibiotic susceptibility tes			
12,13	2 Theory +4 Practice	-Methods for identification of etiological agents of infectious disease			
14-15	2 Theory +4 Practice	8-Diagnosis by organ system Blood stream infections			
16,17	2 Theory +4 Practice	Meningitis and other infections of the Central Nervous System (CNS)			
18,19	2 Theory +4 Practice	10-Diagnosis of bacterial respiratory tract infections			
20,21	2 Theory +4 Practice	11-Infections of the Urinary Tract			
22	2 Theory +4 Practice	12-Genital tract infections			
23,24	2 Theory +4 Practice	13-Bacterial Infections of the Gastrointestinal (GI) Tract 6.			
25	2 Theory +4 Practice	14-Bacterial infections of eyes, ears, & sinuses 7.			
26	2 Theory	Skin, Soft tissue and wound infection			

	+4 Practice				
27	2 Theory +4 Practice	Normally Sterile Body Fluids, Bone and Bone Marrow, and Solid Tissues			
28	2 Theory +4 Practice	Laboratory Methods for diagnosis of Parasitic Infections			
29	2 Theory +4 Practice	Lab Methods in basic Mycology			
30	2 Theory +4 Practice	Lab Methods in basic Virology			

155. 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

156. Learning and Teaching Resources

Required textbooks (curricular books, if any)	المنهج الوزاري لمادة علم الاحياء المجهرية التشخيصية (مادة تقويمية) المزود عبر الرابط الوزاري https://hmt.mtu.edu.iq/e-learning/
Main references (sources)	Jawetz, R., J.L. Melnick, and E.A. Adelberg, Review of Medical Microbiology, Twenty-Eighth Edition, 2019.

Recommended books and references (scientific journals, reports...)	Themes, U. F. O. (2017-02-19). "6 Viruses–Basic Concepts". Basic medical Key. Retrieved 2020-05-29. King AMQ, Adams MJU, Carstens EB, Lefkowitz EJ (editors): Virus Taxonomy: Classification and Nomenclature of Viruses. Ninth Report of the International Committee on Taxonomy of Viruses. Academic Press, 2012. Knipe DM, Howley PM, (editors-in-chief): <i>Fields Virology</i>, 5th ed. Lippincott Williams & Wilkins, 2007.
Electronic References, Websites	https://hmt.mtu.edu.iq/e-learning/

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
2 nd year/ 1 st course		Molecular Biology	Basic	√	√	√	√	√	√	√	√	√	√	√	√

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

Course Description Form

157. Course Name:	
Molecular Biology	
158. Course Code:	
159. Semester / Year:	
2 nd year/ 1 st course	
160. Description Preparation Date:	
14-1-2024	
161. Available Attendance Forms:	
Classes	
162. Number of Credit Hours (Total) / Number of Units (Total)	
90 Hours/ 4 Units	
163. Course administrator's name (mention all, if more than one name)	
Name: Sddiq Ghani Joda Al-Muhanna Email: sddiq.almuhanna@alkafeel.edu.iq	
164. Course Objectives	
Course Objectives	Molecular biology is concerned with the study of biology at the molecular level, so it overlaps with both microbiology and chemistry in several branches and intersects with biochemistry and genetics in several areas. Molecular biology is concerned with studying the various interrelationships between all cellular systems, especially the relationships between DNA & RNA and the process of protein synthesis, in addition to the mechanisms for regulating this process and all biological processes. At the end of this course, the student will be able to understanding the three-dimensional structures and structural formations of nucleic acids in

	humans, as well as understanding their molecular foundations, and also understanding process of replication, transcription and translation.
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165. Teaching and Learning Strategies

Strategy	Coordination and integration between different medical specialties and sciences to achieve a connection between basic sciences and their clinical and practical applications, through coordination between departments to teach related topics in parallel as much as possible in the second.
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166. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Bachelor's	1 Introduction to Molecular Biology applications in Medical Laboratory Techniques specialization	Theoretical + practical	Quizzes Practical Exams Theoretical Exams
2			Structure of Deoxyribonucleic acid (DNA) 1- Primary structure 2- Secondary structure 1- Tertiary structure and chromosome packing in human cells 2- Structure of Ribonucleic acid (RNA)		
4			DNA replication and replication Models		
5			DNA Transcription and post transcriptional modification processes		
6			Translation and post translational modifications and protein synthesis		
7			Gene expression, genetic code and applications of genetic code		
8			DNA damage, types and repair systems and mechanisms		
9+10			DNA mutations, chromosomal aberrations and causes of gene mutations		
11+12			Programmed cell death, telomere and telomerase association with carcinogenesis		
13			Introduction to Recombinant DNA technology 1- Restriction enzymes 2- Cloning vectors		
14+15					

			3- Applications in Molecular cloning			
167. 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						
168. Learning and Teaching Resources						
Required textbooks (curricular books, if any)						
Main references (sources)				Molecular Cell Biology, eighth edition (2016). By Harvey Lodish; Arnold Berk; Chris A. Kaiser; Mon Krieger; Anthony Bretscher; Hidde Ploegh; Angelil Amon; Kelsey C. Martin		
Recommended books and references (scientific journals, reports...)						
Electronic References, Websites				https://www.ncbi.nlm.nih.gov		

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
1 st Semester		Human rights	optional	√	√	√	√	√	√	√	√	√	√	√	√

Course Description Form

169. Course Name:					
Baath Party crimes					
170. Course Code:					
171. Semester / Year:					
1 st Semester / 2 nd stage					
172. Description Preparation Date:					
25-3-2024					
173. Available Attendance Forms:					
Classes					
174. Number of Credit Hours (Total) / Number of Units (Total)					
30 Hours/2					
175. Course administrator's name (mention all, if more than one name)					
Name: assist.lec moatasem rabie hussain					
176. Course Objectives					
Course Objectives		Introducing the student and making him aware of the most important human rights and what should be done in order to ensure life in freedom and dignity			
177. Teaching and Learning Strategies					
Strategy		1- Adopting the method of delivering lectures and linking each topic with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed by the students and solved during the lecture, with the participation of all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.			
178. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Bachelor's	A glimpse into Iraq's modern history	Theoretical + practical	Exams
2	1		A glimpse into the history of the Baath Party		

3	1		Violation of freedoms and rights		
4	1		The impact of the Baathist regime's behaviors on society		
5	1		Psychological mechanisms in controlling judgment		
6	1		The transitional period and the fight against tyranny		
7	1		Social mechanisms in controlling governance		
8	1		The Baath Party's position on religion		
9	1		Culture, media, and the militarization of society		
10	1		Culture, media, and the militarization of society2		
11	1		Use of internationally prohibited weapons		
12	1		scorched earth policy		
13	1		Drying of marshes Forced displacement		
14	1		Destruction of the agricultural and animal environment		
15	1		Mass graves and bombing of places of worship		

179. 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

180. Learning and Teaching Resources

Required textbooks (curricular books, if any)	- Human Rights.. The New Vision: Moncef Marzouki - An introduction to understanding the human rights system: Mohamed Al-Sayed Saeed.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Books and references on human rights

Electronic References, Websites	Internet network
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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
1 st Semester		Human rights	optional	√	√	√	√	√	√	√	√	√	√	√	√

Course Description Form

181. Course Name:					
Human rights					
182. Course Code:					
183. Semester / Year:					
1 st Semester					
184. Description Preparation Date:					
21-3-2024					
185. Available Attendance Forms:					
Classes					
186. Number of Credit Hours (Total) / Number of Units (Total)					
15 Hours/1					
187. Course administrator's name (mention all, if more than one name)					
Name: assist.lec moatasem rabie hussain					
188. Course Objectives					
Course Objectives		Introducing the student and making him aware of the most important human rights and what should be done in order to ensure life in freedom and dignity			
189. Teaching and Learning Strategies					
Strategy		1- Adopting the method of delivering lectures and linking each topic with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed by the students and solved during the lecture, with the participation of all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.			
190. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Bachelor's	The concept of human rights	Theoretical + practical	Exams
2	1		The most important basic methods of human rights		
3	1		Types of human rights		

4	1		Human rights in ancient civilizations		
5	1		Human rights in the Middle Ages		
6	1		Human rights in Islam and the heavenly religions		
7	1		Human rights in Renaissance societies		
8	1		Human rights in modern times		
9	1		Human rights in modern times		
10	1		Human rights in modern times 2		
11	1		Guarantees for the protection of human rights at the national level of service		
12	1		Environmental awareness in Iraq		
13	1		Environmental awareness in Iraq 2		
14	1		Concept of action		
15	1		Human rights categories		

191. 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

192. Learning and Teaching Resources

Required textbooks (curricular books, if any)	- Human Rights.. The New Vision: Moncef Marzouki - An introduction to understanding the human rights system: Mohamed Al-Sayed Saeed.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Books and references on human rights
Electronic References, Websites	Internet network

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
2 nd Semester		Arabic language	optional	√	√	√	√	√	√	√	√	√	√	√	√

Course Description Form

193. Course Name:					
Arabic language					
194. Course Code:					
195. Semester / Year:					
2 nd Semester					
196. Description Preparation Date:					
22-3-2024					
197. Available Attendance Forms:					
Classes					
198. Number of Credit Hours (Total) / Number of Units (Total)					
30 Hours/2					
199. Course administrator's name (mention all, if more than one name)					
Name: assist.lec moatasem rabie hussain					
200. Course Objectives					
Course Objectives		Introducing the student and making him aware of the most important human rights and what should be done in order to ensure life in freedom and dignity			
201. Teaching and Learning Strategies					
Strategy		1- Adopting the method of delivering lectures and linking each topic with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed by the students and solved during the lecture, with the participation of all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.			
202. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Bachelor's	Introduction to linguistic errors (ta' and ha')	Theoretical + practical	Exams
2	1		Introduction to linguistic errors (ta' and ha')2		

3	1		Rules for writing extended and short alifs - solar and lunar letters			
4	1		Writing the hamza			
5	1		punctuation marks			
6	1		The noun, the verb, and the difference between them			
7	1		objects			
8	1		the number			
9	1		Applications on common linguistic errors			
10	1		Noun and noun - meanings of prepositions			
11	1		Formal aspects of administrative discourse			
12	1		The language of administrative discourse			
13	1		Examples of administrative correspondence			
14	1		Examples of administrative correspondence2			
15	1		Dhaad and Dhaa			

203. 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

204. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Collector of Arabic Lessons: Mustafa Al-Ghalay
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Books and references on Arabic language
Electronic References, Websites	Internet network

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
2 nd Semester		Statistics	optional	√	√	√	√	√	√	√	√	√	√	√	√

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

Course Description Form

205.	Course Name:
Statistics	
206.	Course Code:
207.	Semester / Year:
2 nd Semester	
208.	Description Preparation Date:
19-3-2024	
209.	Available Attendance Forms:
Classes	
210.	Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3	

211. Course administrator's name (mention all, if more than one name)	
Name: Dr.Ali Saleh Hassoon Email: alisalealtaie2015@gmail.com	
212. Course Objectives	
Course Objectives	Identify the stages of the statistical process in medical and scientific applications. Recognizing the importance of statistics in the field of scientific research as a basis for analysis in medical and health sciences
213. Teaching and Learning Strategies	
Strategy	1- Adopting the method of delivering lectures and linking each topic with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed by the students and solved during the lecture, with the participation of all students in the section with the professor, to give the subject a kind of interaction.

3- Presenting some practical cases.

214. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1+2	Bachelor's	Definition of Biostatistics basic statistics, some concepts .	Theoretical + practical	Exams
2	1+2		Methods of data presentation		
3	1+2		Descriptive statistics		
4	1+2		Descriptive statistics		
5	1+2		Percentiles, Quartiles and range		
6	1+2		Normal Distribution Applications		
7	1+2		Moments,Skweness and Kurtoisis		
8	1+2		Elementary Probability Theory		
9	1+2		Statistics Estimation Theory		
10	1+2		Test of Significant		
11	1+2		Different type of t-test		
12	1+2		Chi-Square significant test		
13	1+2		One way Anova test		
14	1+2		Simple Coloration coefficient		
15	1+2		Simple Linear regression		

215. 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

216. Learning and Teaching Resources

Required textbooks (curricular books, if any)

- Professor Dr.Amjed Doud Niazi:
statistical analysis in medical
researchers)2nd edition
,March2004.
- Wayne W. Danieal
(BIOSTATISTICS)Basic Concepts
and Methodology for the Health
Sciences ,9th edition,2010.

Main references (sources)

The principle of biostatistics

Recommended books and references (scientific journals, reports...)	Books and references on statistics
Electronic References, Websites	Internet network

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															

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

Course Description Form

217.	Course Name: Histopathology
218.	Course Code:
219.	Semester / Year: year
220.	Description Preparation Date: 15/3/2024
221.	Available Attendance Forms: 15/3/2024
222.	Number of Credit Hours (Total) / 2 theory and 3 practice Number of Units (Total) 7
223.	Course administrator's name (mention all, if more than one name)
Name: Ali Abdul razak Alsaeeh Email: Ali.alsaeeh@ Alkafeel.edu.iq	
224.	Course Objectives
Course Objectives	*to learn change disease. *TO learn how to diagnosis the cell disease *to learn how to make the slide disease •
225.	Teaching and Learning Strategies
Strategy	
226.	Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
30	5	Scrin. laborato	1-cell 2-acute inflammation 3-chronic inflammation 4-repair,healing ,.regeneration 5-degeneration 6-Atrophy, necrosis 7-Gangren 8Diagnosis cancer change in cytoplasm in malignant cancer -change in cell in malignancy 1-Numenclatuer of tumor 12-classification of tumor 13-fixation 14-special stain 15-tissue process -Facter influent rat of impregnation -Microtom and paraffin section 18-staning tissue 19-specail stain 20-bon section -Demonstration of toplasm granule organells and secial tissue -neuropathological tech. niques -Enzyme histochemistry and application -immunohistochemistery and application 25-resin embedded media		

			26-Electron microscop 27-Electron micro.use Histometry and diagnosis use 9-Immunofluorescence tech. 30-Museum and oth		
227. Course Evaluation=10 for day examin, 15 first course,15 second course, 40 final examin.20 practic.					
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					
228. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			Basic pathology text book (roben)		
Main references (sources)			Researched paper,		
Recommended books and references (scientific journals, reports...)			Biochem.cell.Arch Hiv Nursing Alkafeel Cnferance		
Electronic References, Websites			All the scientific site in net.		

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
2024		Virology and Mycology	Basic												

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

Course Description Form

229.	Course Name:		
Virology and Mycology			
230.	Course Code:		
231.	Semester / Year:		
third year			
232.	Description Preparation Date:		
14/3/2024			
233.	Available Attendance Forms:		
234.	Number of Credit Hours		
235.	Course administrator's name (mention all, if more than one name)		
Name: Dr. Qassim Muhsin Alfaham Email: qassimalfaham@alkafeel.edu.iq			
236.	Course Objectives		
Course Objectives		• Language Proficiency: ○ Develop proficiency in listening, speaking, reading, and writing skills in English. ○ Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. • Vocabulary and Grammar: ○ Expand vocabulary knowledge and use a wide range of vocabulary appropriately in various contexts. ○ Apply grammatical structures accurately and effectively in spoken and written communication. • Reading Comprehension: ○ Improve reading comprehension skills by understanding and interpreting a variety of English texts, including fiction, non-fiction, and academic articles. ○ Identify main ideas, supporting details, and implied meanings in English texts. • • •	
237.	Teaching and Learning Strategies		
Strategy			

	Lectures using the smart board Scientific discussions Practical experiment
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238. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

239. 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

240. Learning and Teaching Resources

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

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
		Parasitology	*				*				*				*

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

Course Description Form

241.	Course Name: Parasitology		
242.	Course Code:		
243.	Semester / Year: Second 2023/2024		
244.	Description Preparation Date: 17/3/2024		
245.	Available Attendance Forms: In presence		
246.	Number of Credit Hours (Total) / Number of Units (Total) 2/T/ 2/ P/ C/6		
247.	Course administrator's name (mention all, if more than one name) Name: Mohammad Rutha al sharifi Email: mohammad.alsharifi @alkafeel.edu.iq		
248.	Course Objectives		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; vertical-align: top;"> Course Objectives </td> <td style="width: 30%; vertical-align: top;"> • Introduction • classification • parasitology • protozoa and • disease proto • the main pa • ,symptoms • method of d • • </td> </tr> </table>	Course Objectives	• Introduction • classification • parasitology • protozoa and • disease proto • the main pa • ,symptoms • method of d • •
Course Objectives	• Introduction • classification • parasitology • protozoa and • disease proto • the main pa • ,symptoms • method of d • •		
249.	Teaching and Learning Strategies		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; vertical-align: top;"> Strategy </td> <td style="width: 40%; vertical-align: top;"> 1-lecture 2-Brainstorming 3-Strategy for providing examples </td> </tr> </table>	Strategy	1-lecture 2-Brainstorming 3-Strategy for providing examples
Strategy	1-lecture 2-Brainstorming 3-Strategy for providing examples		

250. Course Structure

Week		Hours	Required Learning Outcomes	Unit or subject name	Learning
	المفردات النظرية/ الطفيليات الطبية		Lecture	parasitology	Oral and written
Week	تفاصيل المفردات				
1	Terms and definitions parasitology. Parasite ,host, symbiosis ectoparasite, endoparasite ,accidental parasite, obligate parasite, facultative parasite ,host parasite relationship scientific nomenclature, type life cycles, type of hosts mechanism of antiparasitic drugs.				
2	Introduction to protozoology Organelle of locomotion, mode living, reproduction classification of protozoa.				
3	Sacodina, Entamoeba histolytica. Biology , medical importance and clinical feature amoebiasis: 1-Intestinal amoebiasis. 2-Extra intestinal amoebiasis Lab. Diagnosis: 1.Direct method (G.S.E.). 2.Indirect method (Serological tests).				
4	Entamoeba coli Differentiation between histolytica & E.coli E. gingivalis. Biology, medical importance Lab. Diagnosis.				
5	4Small amoeba:				

	Endolimax nana Iodamoeba butschlii. Biology of the stages, Lab. Diagnosis.				
6	Mastigophora, general characters. Intestinal flagellates. Giardia lamblia. Chilomastix mesnieri Dientamoeba fragilis. Biology & stages. Diagnostic characters of stages.				
7	Genus Trichomonas. T. vaginalis/ urogenital flagellate. T. hominis T. tenax Biology, medical importance and Lab. Diagnosis of each species.				
8	Haemo- flagellates(blood tissue flagellates), general characters. Developmental stages in the vertebrate & invertebrate hosts Genus Leishmania, species Leishmania, biology, vector, medical importance of each species, types of leishmaniasis, life cycle, Lab. Diagnosis, including immunological tests.				
9	Genus Trypanosoma, species trypanosome, biology, vector, medical importance of each species, forms of parasite, life cycle, Lab. Diagnosis.				
10	Ciliophora: Balantidium coli, Biology, medical importance, Lab. Diagnosis. Apicomplex: General characters				

	Genus Toxoplasma, T. gondii, Biology, Importance, acquired and congenital toxoplasmosis. Life cycle, role of domestic animals in the transmission of the disease. Lab. Diagnosis.				
11	Genus plasmodium. Introduction to malarial parasites, malarial paroxysms, general life cycle of plasmodium, species plasmodium.				
12	P. falciparum, P. vivax, P. ovale, P. malariae. Disease, pathology, medical importance, distribution, morphological differences during life cycle.				
13	General discussion on malarial parasites, epidemiology, methods of diagnosis. Time to take clinical samples. Blood films.				
14	Isospora, pathology, medical importance, Lab. Diagnosis. Sarcocystis species: pathology, medical importance, Lab. diagnosis.				
15	Cryptosporidiosis. Genus cryptosporidium, species belong to the genus, biology, pathology, epidemiology, Lab. diagnosis.				
17	Platyhelminths: General characters. Class cestoda: General characters. Taenia saginata: Taenia solium: Morphology of the adult worm and the larval stages of each species, biology, life cycle of each species.				

	pathogenicity of each species Lab. Diagnosis				
18	Hymenolepis nana Hymenolepis diminuta. Dipylidium caninum Diphylobathrium latum Biology, morphology pathogenicity each species, Lab. Diagnosis.				
19	Echinococcus granulosus. Echinococcus multilocularis. Biology, life cycle, pathogenicity medical importance of hydatid cyst disease, Lab. Diagnosis.				
20	Class Trematoda: General characters. Genus Schistosoma. Species of human schistosomes life cycle. Schistosoma hematobium. Schistosoma mansoni. Biology of adult worm, habits pathogenicity, Lab. diagnosis				
21	Fasciola hepatica Biology, life cycle pathogenicity, Lab diagnosis. Nematohelminths. Class Nematoda, general characters.				
22	Ascaris lumbricoides Enterobius vermicularis. Biology of adult worm, life cycle pathogenicity and medical importance of each species, Lab. Diagnosis of each species.				
23	Trichuris trichura. Trichinella spiralis. Biology, life cycle pathogenicity, medical importance of each species, Lab. Diagnosis of each species.				
24	Strongyloides stercoralis.				

	Biology, life cycle, pathogenicity, medical importance, Life cycle, Diagnosis.				
25	Ancylostoma duodenale, Necator Americanus (Hookworm) Biology, life cycle, pathogenicity, medical importance of each species, Life cycle, Diagnosis.				
26	The filariae: Biology, pathogenicity and medical importance of each species, Life cycle, Diagnosis of each species, Visceral larvae migration, Cutaneous larvae migration.				
	Entomology				
27	Sand fly, Black fly				
28	Mosquitoes				
29	Ticks & Mites				
30	Fleas				

251. Course Evaluation

25 T . 15 P . Final 60

252. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (sources)

Medical parasitology

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

Electronic References, Websites