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

Academic Program Description Form



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: \ \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.

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.

<u>Course Description:</u> 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.

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

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

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

<u>Curriculum Structure</u>: 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.

<u>Learning Outcomes:</u> 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.

<u>Teaching and learning strategies</u>: 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 extracurricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:	
Faculty/Institute:	
Scientific Department:	
Academic or Professional Program N	Name: Medical terminology and anatomy
Final Certificate Name:	
Academic System:	
Description Preparation Date:	
File Completion Date: \ \2024	
Signature:	Signature:
Head of Department Name:	Scientific Associate Name:
•	
Date:	Date:
ri (1 · 1 1 11	
The file is checked by:	
Department of Quality Assurance and U	•
Director of the Quality Assurance and U	Jniversity 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 Credit hours Percentage Reviews*							
	Courses						

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	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 Praction	ce and theory lecturer	

	Program Skills Outline														
				Required program Learning outcomes											
Year/Level	ear/Level Course Course Code Name	Code Name		Knov	Knowledge Skills					Ethics					
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
voor															
year															

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 med				
		terminology				
	•	To learn anatomy of hun				
		body				
		To learn anatomical features				
	•	10 learn anatomical leatures				
9. Teaching and Learning Strategies	3					
Strategy						
10. Course Structure						

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

Upper limb ,lowe limb ,thorax Abdomen ,pelvis ,head and neck Musculoskeletal system: Bones joints and muscl Digestive system Digestive tract ,Accessories and glands Cardiovascular system: heart, blood vessels.

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

		childbirth Embryology, Childhood, grow and developme				
11. Course Ev	/aluation					
_		_	to the tasks assigned exams, reports		it such as daily	
12. Learning a	and Teaching F	Resourc	es			
Required textbooks	(curricular book	s, if any)	Nitter ana	ntomy text bo	ok	
Main references (so	Main references (sources)					
Recommended books and references						
(scientific journals,	reports)					
Electronic Reference	es, Websites		All the sci	entific site or	n internet	

	Program Skills Outline														
				Required program Learning outcomes											
Year/Level	Course Code			Knov	wledge			Skills	5			Ethics			
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
															

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

19. Course administrator's name name) Name:	e (mention all, if more than one
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	Communicative Language Teaching (CLT): Emphasizes real-life communication and interaction in English through activities such as role-plays, discussions, and problem-solving tasks. Formula on magningful language was in outbands contents.
	 Focuses on meaningful language use in authentic contexts to develop speaking and listening skills. 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. Co	22. Course Structure						
Week	Hours	Required Learning	Unit or subjec	t Learning	Evaluation		
		Outcomes	name	method	method		
23. 0	Course E	l 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 ref	erences ((sources)					

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or	Knov	wledge			Skills	5			Ethics			
	3343		optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
year															
Recommended	books an	d referenc	es												
(scientific journa	ls, reports)														
Electronic Refere	ences, Website	es .													

25. Course Name:Histopathology	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 3practic Number of Units					
(Total) 7						
 Course administrator's name (mer name) 	ntion all, if more than one					
Name: Ali Abdul razak Alsaeegh Email: Ali.alsaeegh@ Alkafeel.edu.iq						
32. Course Objectives						
Course Objectives *to lea	arn change disease.					
	earn how to diagnosis the cell disease					
*to lea	arn how to make the slide disease					
• • • • • • • • • • • • • • • • • • •						
33. Teaching and Learning Strategies						
Strategy						
34. Course Structure						

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

26-Electron microscop	
27-Elictron micro.use	
Histometry and diagnosis	
use	
-Immunofluresence 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

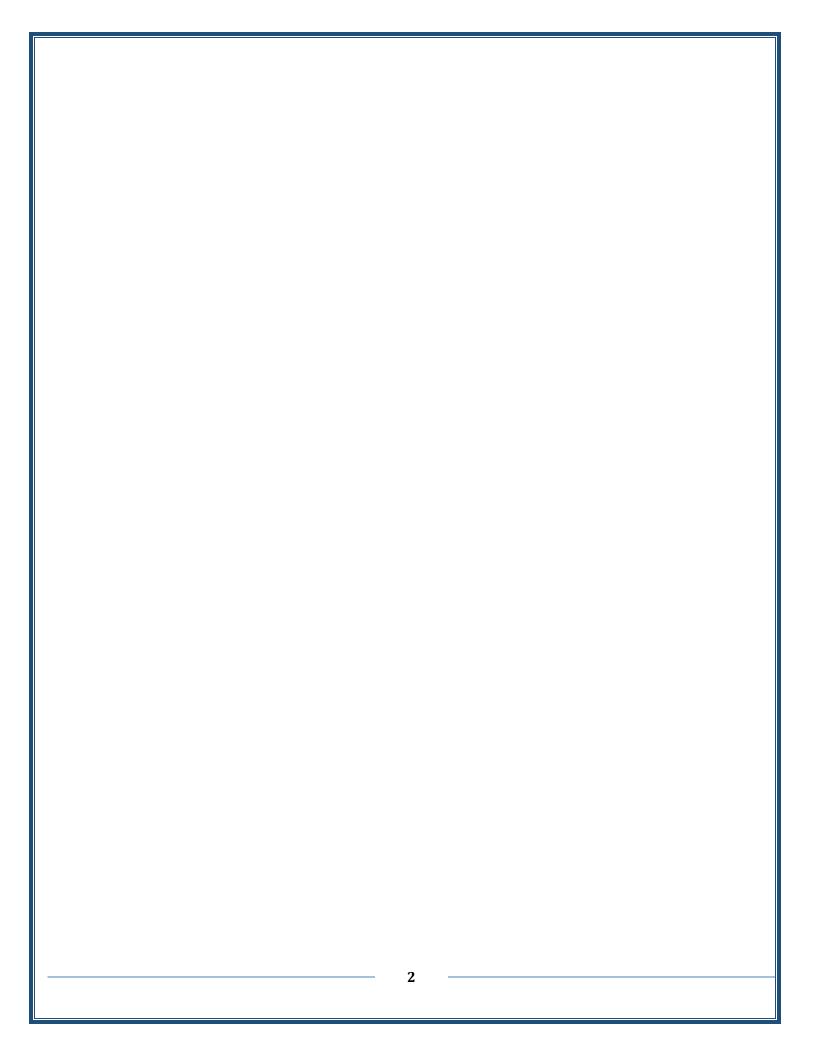
Required textbooks (curricular books, if any)	Basic pathology text book (roben)			
Main references (sources)	Researched paper,			
Recommended books and references	Biochem.cell.Arch			
(scientific journals, reports)	Hiv Nursing			
(as a significant of	Alkafeel Cnferance			
Electronic References, Websites	All the scientific site in net.			

	Program Skills Outline														
					Required program Learning outcomes										
Year/Level Course Code	Course Name	Basic or	Knowledge				Skills				Ethics				
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
2024		Immunology	Basic												

37.	Course Name: Practical Immunol	ogy	
38.	Course Code:		
39.	Semester / Year: third year		
40.	Description Preparation Date:		
44 4 1			
41.Avail	able Attendance Forms:		
42.Num	ber of Credit Hours		
43.	Course administrator's name (m	ention all, it	f more than one
namo	,		
Name: A. L Email:	ecturer Mohanad Kadhim Ali		
44.	Course Objectives		
Course Objec	tives	• Lang	guage Proficiency:
Oburse Object			 Develop proficiency in listening,
			speaking, reading, and writing skills in English. o Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation.
		• Voca	English. o Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation.
		• Voca	English. Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. Bullary and Grammar: Expand vocabulary knowledge and use a wide range of vocabulary appropriately in various contexts. Apply grammatical structures accurately and effectively in spoken
			English. Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. Bulary and Grammar: Expand vocabulary knowledge and use a wide range of vocabulary appropriately in various contexts. Apply grammatical structures
			English. Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. abulary 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.
			English. Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. Bulary 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. 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,
15	Teaching and Learning Stratogics	• Reac	English. Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. Bulary 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. 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,
45. Strategy	Teaching and Learning Strategies	• Reac	English. Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. Bulary 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. 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,

		Sc	Scientific discussions												
		Pr	actical experiment												
46. Course Structure															
Week	Hour	'S	Required Learning	Unit o	r subject	Learning	Evaluation								
			Outcomes	name		method	method								
- 45	<u> </u>														
			Evaluation												
	_		score out of 100 accor y oral, monthly, or wr	_	_		nt such as daily								
			and Teaching Reso		, 1										
Required	d textb	ool	ks (curricular books, if	any)											
Main ref	erence	es (sources)												
Recomm	nende	d	books and refe	rences											
(scientifi	c jouri	nals	s, reports)												
Electron	ic Ref	erei	nces, Websites												

Lectures using the smart board

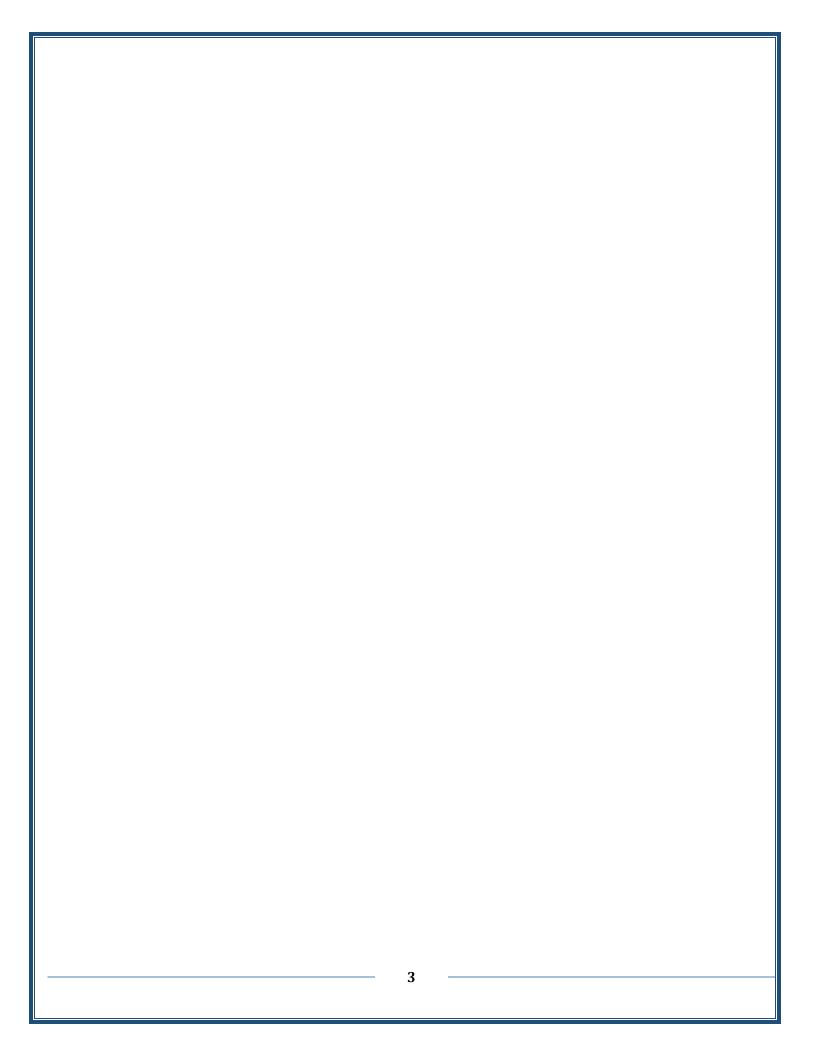


	Program Skills Outline															
				Required program Learning outcomes												
Year/Level	Course Code	Course Name	Basic or optional	Knov	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4	
year				X	X			X	X	X		X	X			

49.	Course Name: General chemis	stry									
50.	Course Code:										
51.	Semester / Year:year 2024										
52.	Description Preparation Date:15/3/2024										
52 A '1	11 Au 1 E 15/2/20	24									
53.Avail	able Attendance Forms: 15/3/20	024									
		theory and 4practic Number of Units									
(Tota	1) 6										
55. name		e (mention all, if more than one									
Name	e: Abdulhussein jaafer shamsa										
Emai	l: abdulhussien.shamsa@alkaf	eel.edu.iq									
56.	Course Objectives										
Course Object	tives	Be able to understand the basic principles									
		general and life chemistry and its applications									
		Be able to link the traumatic pain to abnor changes in other components of the blood a									
		body									
		Have the ability to collect and treat biolog									
		samples									
57.	Teaching and Learning Strateg	ies									
Strategy											

58. Cou	. Course Structure											
Week H	Hours	Required Learning	Unit or subject	Learning	Evaluation							
		Outcomes	name	method	method							
30 8	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, Acidbase 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									

				fund ami reac leic ressio	ction no a ction ac on, I	s, classification, as, peptide bonds, cids, chemical s. ids and their DNA Replication, an, RNA Topology				
59. (Course E	Evaluatio	n=10	for day e	xar	min, 25 first co	ourse, 25 se	cond cours	e,	
40	40 final examin.									
	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. L	earning	and Te	aching	Resourc	es					
Require	d textboo	ks (curricu	ılar boc	oks, if any)		General Cher and Applicati Context4Boo	ons	ciples, Patter	rns,	
Main ref	erences ((sources)				Genera Chemi	l Organic stry	chemistry	NE	
Recomn	nended	books	and	reference	es					
(scientifi	c journals	s, reports.)							
Electron	ic Refere	nces, We	osites							



	Program Skills Outline														
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or	Knov	vledge			Skills	5			Ethics			
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	C3	C4

61.	Course Name: Medical Ethics										
(0)		0.1									
62.	Cot	urse Code:									
63.	Ser	nester / Year: first	course								
64. Description Preparation Date:											
65.A	vailable	Attendance Forms:									
66.Number of Credit Hours (Total 30) / Number of Units (Total 4)											
67.		urse administrator	's name (mention	all, if more th	an one						
	ame) Iame: Gl	nadeer Mohammed	Hussain								
		adeer.mohammed									
68.	Cou	urse Objectives									
Cou	rse Objec		- Emotional and val	ue goals							
			1- Listening								
			2-Answering the qu	estions asked							
			3- Adherence to lec	ture times							
			4- Participation and	interaction during	the lecture						
69.	Tea	aching and Learning	Strategies								
Strategy	Advising	and directing students or	n the necessity of underst	tanding lectures, the	he importance of						
	focusing	on the content of the less	sons, making the most of	the information p	rovided, and givin						
	the aspe	ct of scientific and acade	mic culture "theory" great	importance equal	to the practical						
aspect.											
70. Co.	urse Stru	ıcture									
Week	Hours	Required Learning	Unit or subject	Learning							
		3	<u> </u>	2001111119	Evaluation						

		valuation				
Score dis	stribution	out of 100 according	to trad	itional exams a	nd surprise que	estions
72. L	earning	and Teaching Reso	urces			
Required	textbook	s (curricular books, if a	ny)			
Main refe	erences (s	ources)	·	Professional be Al-Tikriti	ehavior of doctor	rs by Al-Hakim F
Recomm	ended bo	oks and references (sc	ientific			
journals,	reports)				
Electronic	c Referen	ces, Websites				

	Program Skills Outline														
			Required program Learning outcomes												
Year/Level	Course Code	Course Basic or	Knov	Knowledge			Skills			Ethics	Ethics				
		optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4	

73.	Co	ourse Name:			
74.	Co	ourse Code:			
75.	Se	emester / Year:			
76.	De	escription Preparat	tion Date:		
77	Availabl	e Attendance Forms	:		
78 1	Viimbar	of Credit Hours (To	stal) / Number of Ur	vite (Total)	
70.1	Nullioci	of Cledit Hours (10	nai) / Number of Of	nts (10tai)	
79.		ourse administrato	or's name (mentior	all, if more th	nan one
	name)				
	Name:				
J	Email:				
80.	C	ourse Objectives			
	Objective		•		
	•		•	••••	
			•	••••	
81.	Te	eaching and Learnin	g Strategies		
81.		eaching and Learnin	g Strategies		
		eaching and Learnin	g Strategies		
		eaching and Learnin	g Strategies		
Strategy			g Strategies		
Strategy			g Strategies Unit or subject	Learning	Evaluation
Strategy 82. Co	ourse St	ructure		Learning method	Evaluation method
Strategy 82. Co	ourse St	ructure Required Learning	Unit or subject		
Strategy 82. Co	ourse St	ructure Required Learning	Unit or subject		

83. (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. I	Learning	and Te	aching	Resource	s						
Require	d textboo	ks (curricu	ular boo	ks, if any)							
Main re	ferences	(sources)									
Recomm	nended	books	and	reference	3						
(scientif	ic journals	s, reports.)								
Electron	ic Refere	nces, We	bsites								

	Program Skills Outline														
			Required program Learning outcomes												
Year/Level	Course Code	_ 5.5.5 5.	Knowledge			Skills			Ethics						
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4

85.	Co	ourse Name:				
86.	Co	ourse Code:				
87.	Se	emester / Year:				
88.	D	escription Preparat	ion Date):		
89.	Availabl	e Attendance Forms	:			
90.1	Numbar	of Credit Hours (To	tal) / Niji	mber of Uni	ts (Total)	
90.1	Nullibel	of Cledit Hours (10	tai) / INu		is (10tai)	
91.		ourse administrato	r's name	e (mention	all, if more th	an one
	name) Name:					
	Maine: Email:					
1	CIIIaII.					
92.	C	ourse Objectives				
Course	Objective	s		•	••••	
				•	••••	
				•	••••	
93.	Te	eaching and Learnin	g Strate	jies		
Strategy	,					
94. Co	ourse St	ructure				
Week	Hours	Required Learning	Unit or s	subject	Learning	Evaluation
		Outcomes	name		method	method

95. 0	95. Course Evaluation										
prepara	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. l	_earning	and Te	aching	Resour	es						
Require	d textboo	ks (currici	ılar boo	ks, if any							
Main ref	erences	(sources)									
Recomn	nended	books	and	referenc	es						
(scientifi	c journals	s, reports.)								
Electron	ic Refere	nces, We	bsites								

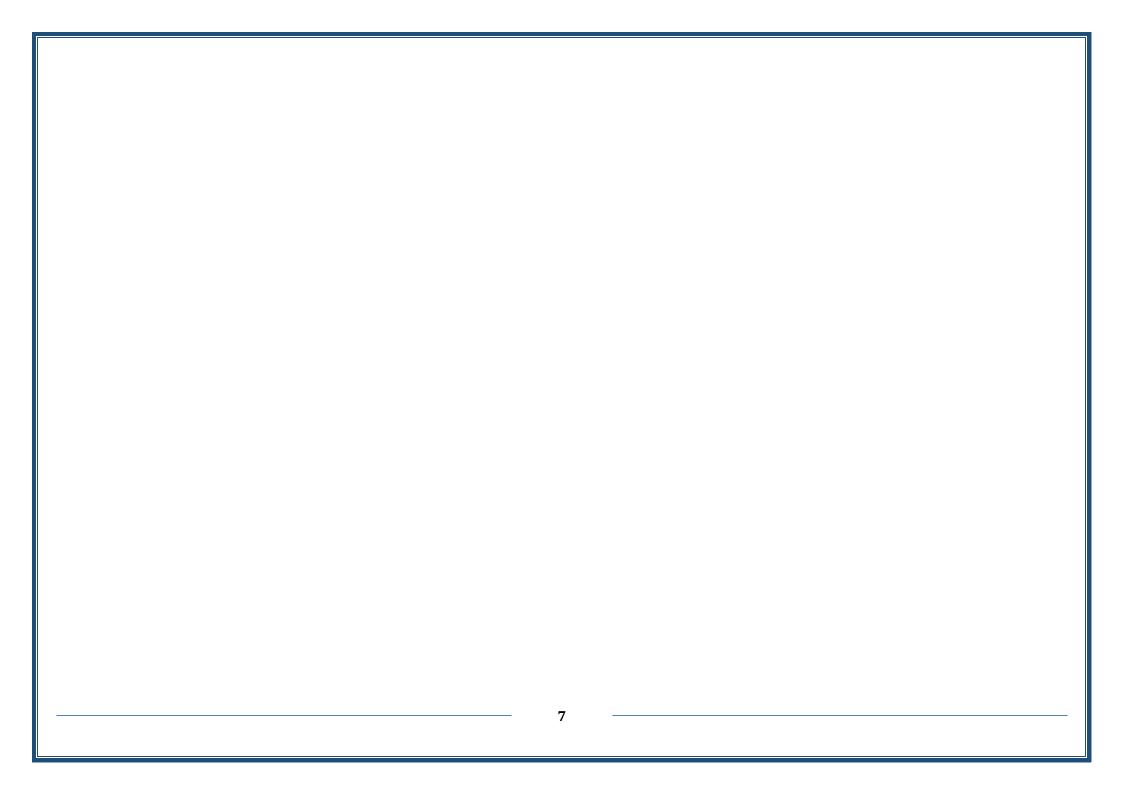
	Program Skills Outline														
			Required program Learning outcomes												
Year/Level	Course Code	_ 5.5.5 5.	Knowledge			Skills			Ethics						
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4

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.	103. Course administrator's name (mention all, if more than one										
na	me)			,	•						
Na	me: A	li Atiyha Abid									
Em	nail:										
104. Course Objectives											
Course Obj	Course Objectives Emotional and value goals										
Participation in scientific activities											
				Participate in	scientific discussion	ons					
105.	Te	eaching and Learning	g Strateg	jies							
Strategy	The	eoretical lectures using th	e smart bo	ard							
	Pra	actical Training									
	Sci	entific discussions									
106. Co	urse S	Structure									
Week H	lours	Required Learning	g Unit or subject Learning Evaluation								
		Outcomes	name method method								

107. Co	ourse E	Evaluation							
Distributing the score out of 100 according to the tasks assigned to the student such as preparation, daily oral, monthly, or written exams, reports etc 108. Learning and Teaching Resources									
Required t	textbook	s (curricular bo	ooks, if a	any)					
Main refer	rences (sources)			 Fundamentals of Analytical Chemistry, ninth edition and Douglas A. Skoog, Donald M. West. Holt Chemistry, R. Thomas Myers, Keith B. Oldham and Salvatore Tocci 				
Recomme (scientific		books and , reports)	refe	rences					

Electronic References, Websites				
Electronic References, Websites				
Electronic References, Websites				
Electronic References, Websites				
Electronic References, Websites				
Electronic References, Websites		1		
	Electronic References, Websites			



	Program Skills Outline														
							Req	uired	progr	am L	earnin	g outcon	ies		
Year/Level	Course Code	Course Name	Basic or	Knov	vledge			Skills	s			Ethics			
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
Fourth		pathohisto logy	Basic				*			*				*	

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

115. Course administrator's name name) Name: Hameed Abdulhussein mjbe Email: hameed.altememi@alkafeel	
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

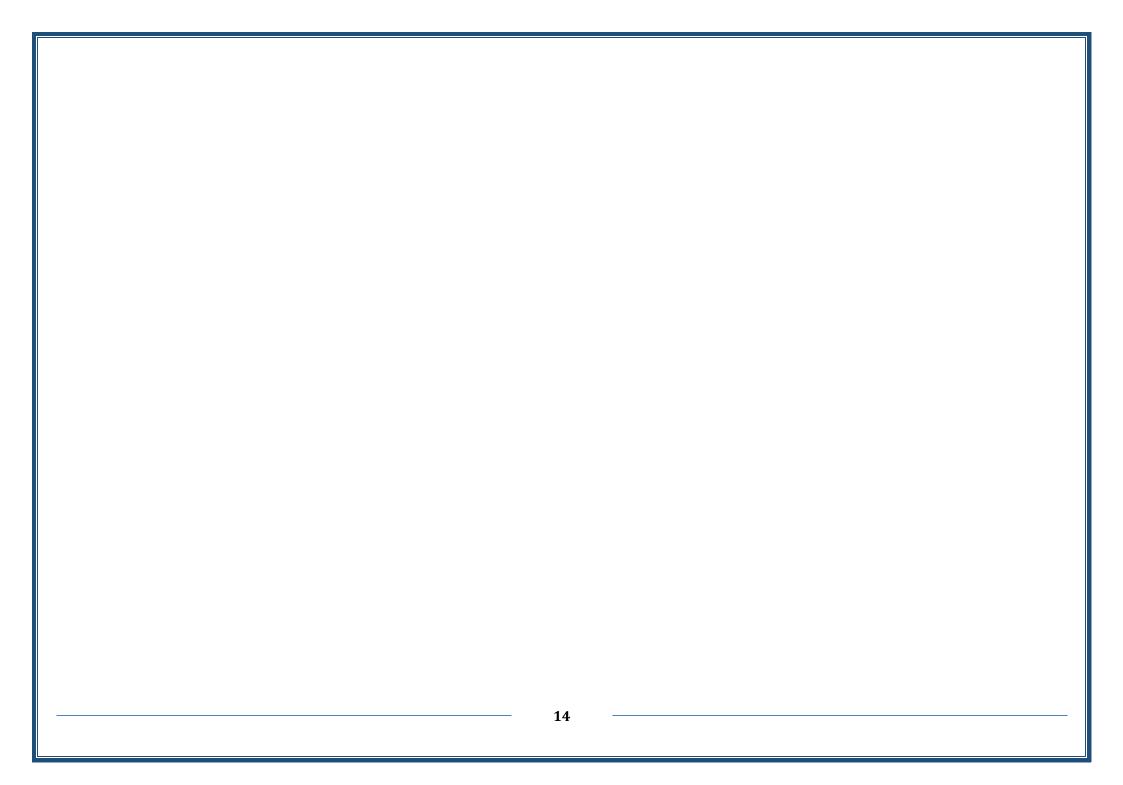
		of examining and diagnosing th
		diseases.
117.	Teaching and Learning Strateg	gies
Strategy	1-lecture 2-Brainstorming 3-Strategy for providin	g examples.

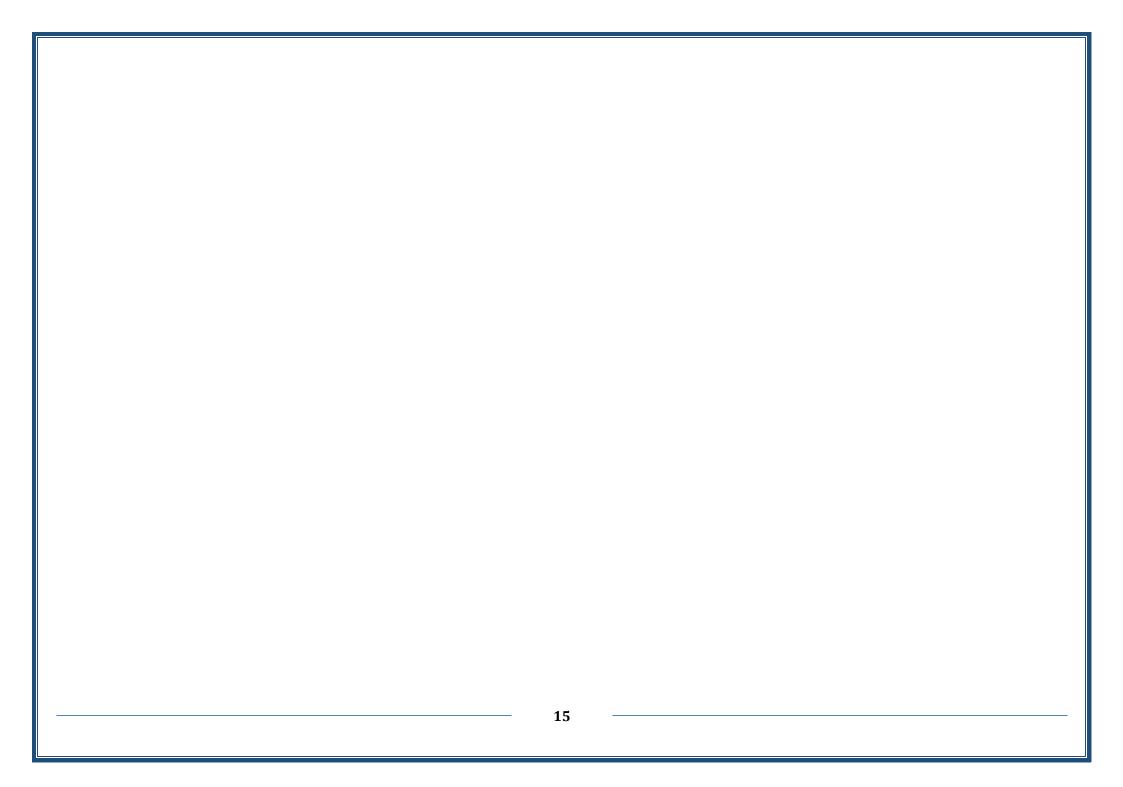
118. Course Structure

Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
		Outcomes	name	method	method
1	2	Introducing t	Lung (atelectasias, acute injury)	Oral and written	lecture
2		student to the typ	Lung (chronic bronc		
3		of diseases and th	pulmonary embolism) Lung tumors		
4		basic symptoms	Kidney (glomercular disease		
5			Kidney (nephrotic syndrome nephropathy (Berger disease		
6			Kidney tumors		
7			Cancer of the oral cavity tongue		
8			Esophagus (lacivation, var esophageal carcinoma)		

9		stomach (gastritis, u
10		arcinoma) arge intestines (hemorrh
11	n	nalabsorption syndrome)
12		Crohn disease Large intestines tumors
13		ange intestines tumors
14		
15	,	
		virrhosis)
1	Н	Hepatic tumors
2		Gall bladder (cholecys umors)
3		Pancreas (pancreatitis)
4		Pancreatic neoplasma
5		Male genital system (testic trophy, lesions, neoplasma)
6	M	Male genital system (prost
7		umors) Semale genital system (cervi
8		umor of the cervix)
	I I	Iterus (endometi
9		endometriosis , tumor of laterus)
10	В	Breast (fibrocystic char
11	l tı	umors of the breast)
12		

13 14	Endocrine sys (hyperpituitarism and pitui
15	adenoma) Thyroid (thyroiditis, thy neoplasma) Bone tumors Skin (acute eczema dermatitis, psoriasis) Skin tumors Nervous system (brain tumo Nervous system (diseases of peripheral nervous system)
119. Course Evaluation	
25 T . 15 P . Final 60	
120. Learning and Teaching Rese	ources
Required textbooks (curricular books, if	any)
Main references (sources)	Robbins,Basic,Pathology.
Recommended books and refe	rences
(scientific journals, reports)	
Electronic References, Websites	





	Program Skills Outline														
							Req	uired	progr	am L	earnin	g outcon	nes		
Year/Level	Course Code	Course Name	Basic or	Knov	Knowledge			Skills	Skills			Ethics			
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
Second		Histology	Basic				*			*				*	
															
															<u> </u>

121.	Course Name: Histology	
122.	Course Code:	
123.	Semester / Year:	
202	23/2024	
124.	Description Preparation Date	:
3/2023		
125.	Available Attendance Forms:	
_	esence	
126.	Number of Credit Hours (Total) / Number of Units (Total)
2 T .2	2 P . 3C	
127.	Course administrator's name	e (mention all, if more than one
name	e)	
Nam	e: Hameed Abdulhussein mjbe	I
Emai	l: hameed.altememi@alkafeel.	edu.iq
128.	Course Objectives	
Course Objec	tives	 Introducing the student to the ba
		types of cells.
		 Classification of these cells according
		the study of their shape that makes
		those tissues and the basic function
		these cells that make up the varie
		tissues and organs of the human body
		Examining thin slices of tissue under
100	Topphing and Lagraina Otracta	optical microscope
129.	Teaching and Learning Strateg	lies
Strategy	1-lecture	
	2-Brainstorming	a arramalas
	3-Strategy for providin	g examples.

130.	Course S	Structure			
Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
		Outcomes	name	method	method
1	2	Understanding an	Introduction and overview methods used in histol	Oral and ritten test	lecture
2		assimilating the	Classification of Histol		
3		characteristics of	Tissue preparation		
4		normal cells and	Overview of Cell structure types		
5		tissues.			
6		Analysis of the	Tissues: Concept classifications of primary tiss		
7		functions of tissue	Epithelial tissue: Simple Ep.		
8		and constituent	Compound Ep. T.		
9		cells.	The glandular Tissues (
10		Enable students	Glands)		
11 12		compare different cells.	Connective and Suppor Tissue: Embryonic and adult		
13		Enable the stude			
14		to describe tissu	(General C.T.) Cartilage, Histogenesis, Gro		
15		and their cellu	and repair of cartilage		
		components	Bone & Histogenesis of Bone		
			The Blood The haemopoietic organ (kmarrow), Formation of blood cells. Muscular tissue		
			Nervous tissue: Overview nervous system (CNS & PNS)		
			Nervous system: the Nerve ((neurons) and t classification		
1 2			Supporting cells of nerv system الفصل الثاني Circulatory system		
3 4			Lymphoid system- Lymph vessels- Lymph		
5			Lymphoid organs		
6			Respiratory system		
7 8			Digestive system/ Part one- cavity		
9 10			Digestive system/ Part t Gastrointestinal tracts		

11 12 13 14 15				Accesso 8-9 Endocr Male re Female Sense o	ve system/ Part thory Glands Urinary system ine system productive system reproductive system rgan egumentary system- S		
	Course I		n				
25 T . 1	5 P. Fina	ıl 60					
132.1	Learning	and Te	aching	Resources			
Require	d textboo	ks (curric	ular boo	oks, if any)			
Main ref	ferences	(sources)			Junque	eiras Basic Hi	stology
Recomn	nended	books	and	references			
(scientif	ic journals	s, reports)				
Electron	nic Refere	nces, We	bsites				

	Program Skills Outline															
				Required program Learning outcomes												
Year/Level Course Code			Course Basic or		Knov	vledge			Skills	3			Ethics			
	optional	optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4		
2023-2024		Clinical Immunolo gy	Basic	*	*	*	*	*	*	*	*					

133.	Course Name:								
Clinical Imr	munlogy								
134.	Course Code:								
135.	Semester / Year:								
2023-2024	4								
136.	Description Preparation	Description Preparation Date:							
16/3/2024									
137.	Available Attendance For	rms:							
	oretical and practical								
138.	Number of Credit Hours	(Total) / Nu	mber 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 Object	ctives	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						
			pathogenesis of common minute						

 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	Lear	Evaluati
			subject	ning	on
			name	met	method
				hod	
1	2	Rheumatic Diseases			
	Theory	Rheumatoid Arthritis			

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

11	2 Theory +4 Practice	1. Circulating immune Complex 2. In situ immune complex Formation b) الأضداد الذاتية المضادة لهيولي والامراض (ANCA)العدلة المرتبطه 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. Memberanousglomerlul onephritis (Nephrotic Syndrome)		
14	2 Theory +4 Practice	2. PostinfectionGlomerul o-nephritis3. IgA Nephropathy		
15	2 Theory +4 Practice	Lupus Nephritis Henoch- SchonleinPurpura		
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	Asthma		
	Theory			
	+4			
	Practice			
20	2	Non-Allergic Bronchitis		
	Theory			
	+4			
	Practice			
21+22	2	Hypersensitivity Diseases:		
	Theory			
	+4			
	Practice			
23	2	Autoimmune Hemolytic Anemia		
	Theory			
	+4			
	Practice			
24	2	Eczema and Contact Dermatitis		
	Theory			
	+4			
	Practice			
25+26	2	Endocrinology (Immunological		
	Theory	Thyroid Diseases , Immunological Infertility and		
	+4	other)		
	Practice			
27+28	2	Tumors and Tumor Markers		
	Theory			
	+4			
	Practice			
29+30	2	Graft versus host rejection and		
	Theory	Transplantation		
	+4			
	Practice			

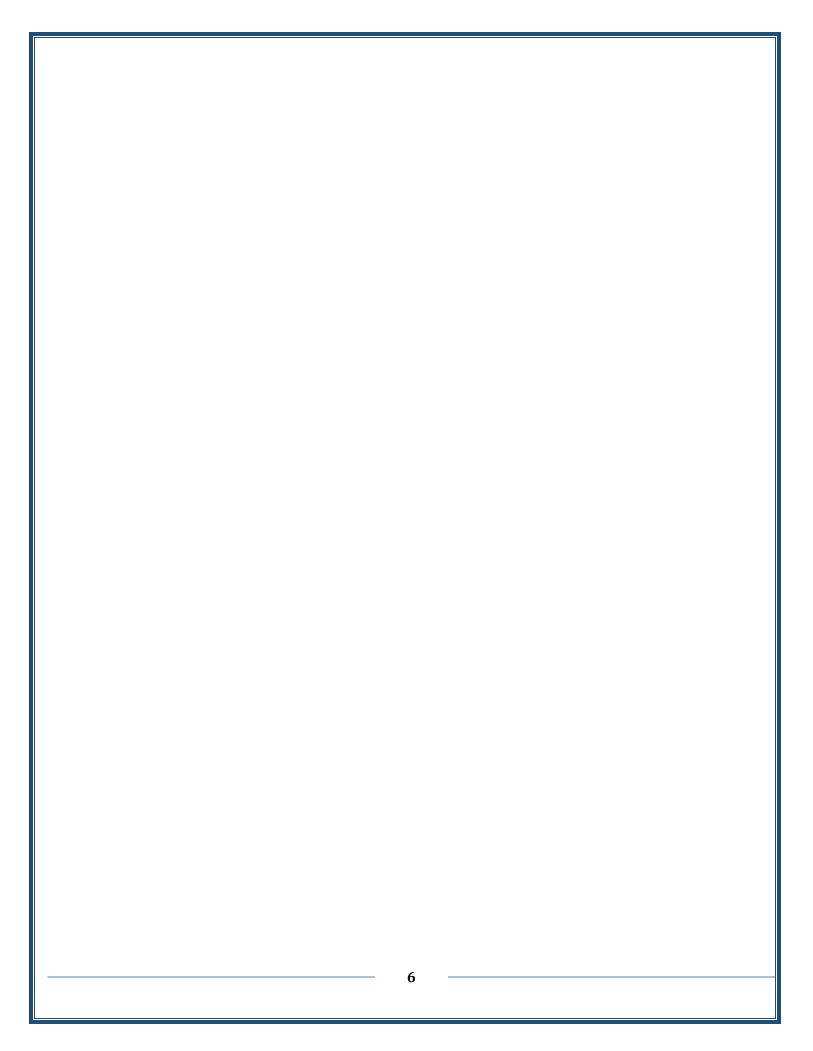
143. Course Evaluation

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)	Essential of clinical immunology (Helen chapel 6 edition Basic and clinical immunology (Mark peakman Diego vergani second edition) 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			20.010 01		c or Knowledge			Skills				Ethics			
	optional	optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4	
2023-2024		Diagnostic microbiol ogy	Basic	*	*	*	*	*	*	*	*				

145. Course Name:						
Diagnostic microbiology						
146. Course Code:						
147. Semester / Year:						
2023-2024						
148. Description Preparation	n Date:					
15/3/2024						
149. Available Attendance Fo	orms:					
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 S	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

154. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Lear ning met hod	Evaluati on 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	-Antibiotic susceptibility tes		
	Theory			
	+4 Practice			
12,13	2	-Methods for		
	Theory	identification of		
	+4	etiological agents of		
	Practice	infectious disease		
14-15	2	8-Diagnosis by organ		
	Theory	system Blood stream		
	+4	infections		
16 17	Practice 2	Maningitis and other		
16,17	Theory	Meningitis and other infections of the Central		
	+4			
	Practice	Nervous System (CNS)		
18,19	2	10-Diagnosis of bacterial		
	Theory	respiratory tract infections		
	+4			
20.21	Practice 2	11 7-6-4		
20,21	Z Theory	11-Infections of the Urinary		
	+4	Tract		
	Practice			
22	2	12-Genital tract infections		
	Theory			
	+4			
23,24	Practice 2	13-Bacterial Infections of the		
23,24	Theory			
	+4	Gastrointestinal (GI) Tract 6.		
	Practice	G.		
25	2	14-Bacterial infections of		
	Theory	eyes, ears, & sinuses		
	+4	7.		
26	Practice 2	Skin Soft tissue and wound		
20	Theory	Skin, Soft tissue and wound infection		
	1110019	IIIICCUOII		

	+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/
	<u>e-learning /</u>
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): Fields Virology, 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	20010 01		Knowledge S			Skills	Skills			Ethics	Ethics		
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
2 nd year/ 1 st		Molecular Biology	Basic	1	1	1	V	1	1	V	1	1	1	1	V
course															

157. Course Name:

Molecular Biology

158. Course Code:

159. Semester / Year:

 $2^{\text{nd}}\,\text{year/}\,1^{\text{st}}\,\text{course}$

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 various concerned with studying the 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	four	ndation	ıs, ar	nd also understa	nding
process	of	replic	ation	, transcription	and
translatio	n.				

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.

166. Course Structure

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

3- A _I	pplications in Molecular cloning	
167. Cou	urse Evaluation	
S	ing to the tasks assigned to the student such as onthly, or written exams, reports etc	
168. Learning ar	nd Teaching Resources	
Required textbooks (curricular books, if a	ny)	
Main references (sources)	Molecular Cell Biology, eighth edition (2016). Harvey Lodish; Arnold Berk; Chris A. Kaiser; M. Krieger; Anthony Bretscher; Hidde Ploegh; Ang. Amon; Kelsey C. Martin	Aon
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	Knowledge		Knowledge Skills			Ethics						
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
1 st Semester		Human	optional	V	V	V	1	V	V	$\sqrt{}$	V	V	V	1	V
		rights													

169.	Course Name:
Baath Party of	rimes
170.	Course Code:
171.	Semester / Year:
1 st Semeste	r / 2 nd stage
172.	Description Preparation Date:
25-3-2024	
173.	Available Attendance Forms:
Class	es
174.	Number of Credit Hours (Total) / Number of Units (Total)
30 H	ours/2
175. nam	Course administrator's name (mention all, if more than one
Nam	e: assist.lec moatasem rabie hussain
176.	Course Objectives
Course Object	
	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 eac 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.
1=0	o resenting 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 +	Evame
2	1	Dachelol S	A glimpse into the history of the Baath Party	practical	Exams

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

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	Books and references on human rights
(scientific journals, reports)	

lectronic References, Websites	Internet network	

			Pro	gram	Skills	Outl	ine								
							Req	uired	progr	am Le	earnin	g outcon	ies		
Year/Level	Course Code	Course Name	Basic or			Skills				Ethics					
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
1 st Semester		Human	optional	V	V	V	1	V	V	1	V	V	V	V	V
		rights													
	·														

181. C	lourse Name:
Human rights	
182. C	ourse Code:
183. S	emester / Year:
1 st Semester	
184. D	Description Preparation Date:
21-3-2024	
185. A	vailable Attendance Forms:
Classes	
186. N	Number of Credit Hours (Total) / Number of Units (Total)
15 Hou	rs/1
187. C	Course administrator's name (mention all, if more than one
name)	
Name:	assist.lec moatasem rabie hussain
188. C	Course Objectives
Course Objective	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. T	eaching 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
	Paguired Learning Learning Evaluation

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1		The concept of human rights	Theoretical +	
2	1	Bachelor's	The most important basic methods of human rights	practical	Exams
3	1		Types of human rights		

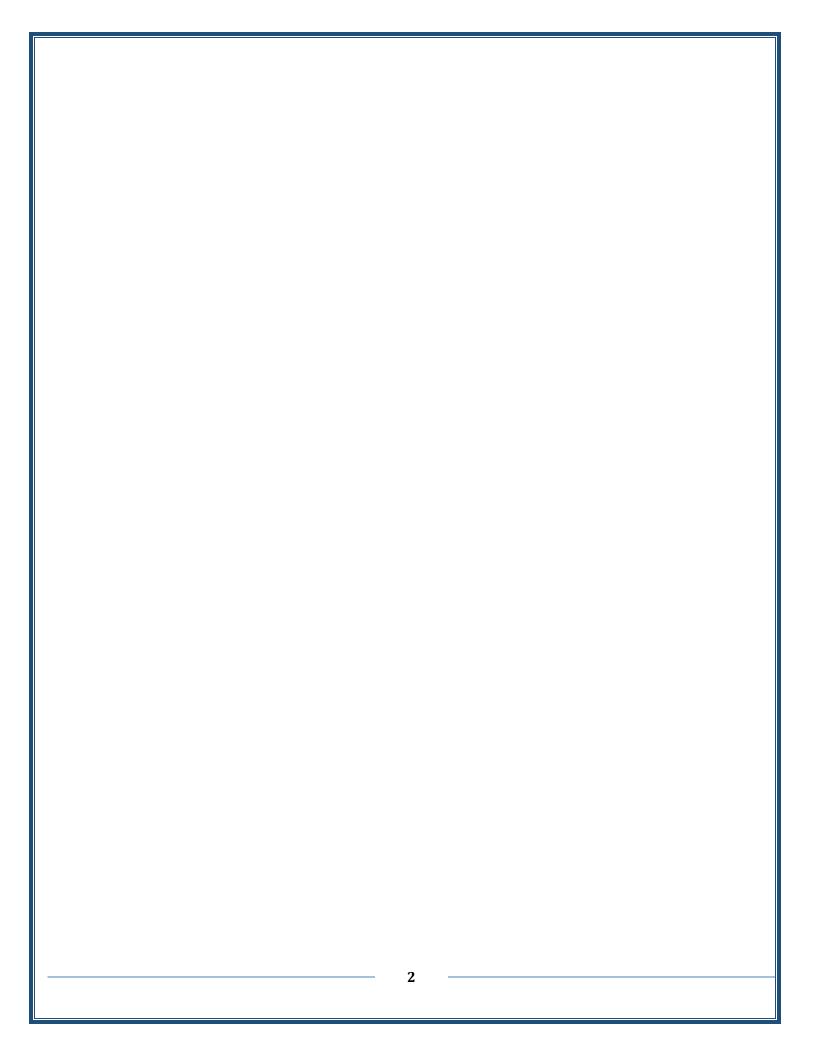
4	1	Human rights in ancient	
-T	1	civilizations	
5	1	Human rights in the Middle	
	1	Ages	
6	1	Human rights in Islam and	
U	1	the heavenly religions	
7	1	Human rights in Renaissance	
,	1	societies	
8	1	Human rights in modern	
٥	1	times	
9	1	Human rights in modern	
9	1	times	
10	1	Human rights in modern	
10	1	times 2	
		Guarantees for the	
11	1	protection of human rights	
11	1	at the national level of	
		service	
12	1	Environmental awareness in	
	1	Iraq	
13	1	Environmental awareness in	
13	T	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	Books and references on human rights
(scientific journals, reports)	
Electronic References, Websites	Internet network



			Pro	gram	Skills	Outl	ine								
							Req	uired	progr	am Le	earnin	g outcon	1es		
Year/Level	Course Code	Course Name	Basic or Knowledge Skills		5			Ethics							
			optional	optional A1		A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
2 nd Semester		Arabic	optional	1	1	$\sqrt{}$	V	$\sqrt{}$	$\sqrt{}$	V	V	V	V	V	V
		language													

193	Co	urse Name:			
	anguag				
194		urse Code:			
407		,			
195		mester / Year:			
2 nd Sem	ester				
196	. De	scription Prepar	ation Date:		
22-3-2	2024				
197.	Av	ailable Attendance	ee Forms:		
C	Classes				
198.	Νι	ımber of Credit H	ours (Total) / Number of	Units (Total))
3	0 Hours	5/2			
199	. Co	ourse administra	tor's name (mention all	, if more tha	an one
n	ame)				
N	lame: as	ssist.lec moatase	m rabie hussain		
200	. Co	urse Objectives			
Course C	bjectives	Introducing the stu	dent and making him aware of t	he most importa	ant human rights
		and what should be	e done in order to ensure life in	freedom and di	gnity
201	. Te	aching and Learn	ing Strategies		
Strategy		1- Adopting th	e method of delivering	lectures and	linking each
		topic with exa	mples from a real work	situation.	
		2- Giving then	n some simple practical	exercises th	at are
		discussed by t	he students and solved	during the le	ecture, with
		the participati	on of all students in the	section with	n the
		professor, to g	give the subject a kind of	interaction	•
		3- Presenting	some practical cases.		
202. C	Course S	Structure			
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation

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 +	Evams
2	1	Dachelol 3	Introduction to linguistic errors (ta' and ha')2	practical	Exams

		Rules for writing extended	
3	1	and short alifs - solar and	
		lunar letters	
4	1	Writing the hamza	
5	1	punctuation marks	
6	1	The noun, the verb, and the	
O	1	difference between them	
7	1	objects	
8	1	the number	
9	1	Applications on common	
9	1	linguistic errors	
10	1	Noun and noun - meanings	
10	T	of prepositions	
11	1	Formal aspects of	
11	T	administrative discourse	
12	1	The language of	
12	1	administrative discourse	
13	1	Examples of administrative	
13	1	correspondence	
1.4	1	Examples of administrative	
14	T	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

$204. \, \mathrm{Learning}$ and Teaching Resources

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

	Program Skills Outline														
				Required program Learning outcomes											
Year/Level Course Code		Code Name	Knowledge			Skills				Ethics					
	3343		optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
2 nd Semester		Statistics	optional	V	1	V	V	V	V	V	V	1	V	1	1

205.	Course Name:					
Statistics	dourse runner					
206.	Course Code:					
207.	Semester / Year:					
2 nd Semest	er					
208.	Description Preparation Date:					
19-3-2024	4					
209.	Available Attendance Forms:					
Class	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)							
Nar	Name: Dr.Ali Saleh Hassoon						
Ema	ail: alisalealtaie2015@gmail.coi	m					
212. Course Objectives							
Course Obje	ectives	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 Strate	gies					
Strategy	1- Adopting the method of de	elivering lectures and linking each topi					
	with examples from a real work situation.						
	2- Giving them some simple practical exercises that are discussed b						
	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.	F					

3- Presenting some practical cases.

214. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1+2		Definition of Biostatistics basic		
	112		statistics, some concepts.		
2	1+2		Methods of data presentation		
3	1+2		Descriptive statistics		
4	1+2		Descriptive statistics		
5	1+2		Percentiles, Quartiles and range		
(1.2		Normal Distribution		
6	1+2		Applications	TTI	
7	1.2	Bachelor's	Moments,Skweness and	Theoretical +	F
/	1+2	Dachelol 3	Kurtoisis	practical	Exams
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 (BIOSTATISICS)Basic Concepts and Methodology for the Health Sciences ,9th edition,2010. 					
Main references (sources)	The principle of biostatistics					

Recommended	books	and	references	Books and references on statistics
(scientific journals	, reports.)		
Electronic Referer	nces, We	bsites		Internet network

	Program Skills Outline														
					Required program Learning outcomes										
Year/Level	Course Code	Course Name	Basic or	Knov	vledge			Skills	5			Ethics			
	opt	optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4	
year															

217.	Course Name:Histopathology						
218.	Course Code:						
219.	Semester / Year:year						
220.	Description Preparation Date	:15/3/2024					
221.	Available Attendance Forms: 1	5/3/2024					
222. Units	Number of Credit Hours (Total (Total) 7) / 2 theory and 3practic Number of					
223.	Course administrator's name	e (mention all, if more than one					
name	e)						
	e: Ali Abdul razak Alsaeegh l: Ali.alsaeegh@ Alkafeel.edu.io	7					
224.	Course Objectives						
Course Objec	tives	*to learn change disease.					
		*TO learn how to diagnosis the cell disease					
		*to learn how to make the slide disease					
		•					
225.	225. Teaching and Learning Strategies						
Strategy							
226. Cours	226. Course Structure						

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

26-Electron microscop 27-Elictron micro.use	
Histometry and diagnosis use	
)-Immunofluresence 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	Biochem.cell.Arch			
(scientific journals, reports)	Hiv Nursing			
	Alkafeel Cnferance			
Electronic References, Websites	All the scientific site in net.			

	Program Skills Outline														
							Req	uired	progr	am L	earnin	g outcon	ies		
Year/Level	Course Course Name		Basic or	Knowledge			Skills Eth			Ethics	S				
	Joue	optic	optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
2024		Virology and Mycology	Basic												

229.	Course Name:		
Virology a	nd 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		
234.	Number of Cledit Hours		
235.	Course administrator's name (menti	on all, if	more than one
name			
Name: Dr.	Qassim Muhsin Alfaham		
Email: qass	imalfaham@alkafeel.edu.iq		
236.	Course Objectives		
Course Object	tives	• Lang	uage Proficiency:
Oodi'se Object	uves		 Develop proficiency in listening, speaking, reading, and writing skills in
			English.
			 Demonstrate the ability to understand and produce spoken English with
			o Demonstrate the ability to understand
		• Voca	Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary and Grammar:
		• Voca	Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary and Grammar: Expand vocabulary knowledge and use
		• Voca	Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary and Grammar: Expand vocabulary knowledge and use a wide range of vocabulary appropriately in various contexts.
		• Voca	Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary and Grammar: Expand vocabulary knowledge and use a wide range of vocabulary
			Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary 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.
			Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary 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. ing Comprehension: Improve reading comprehension skills
			Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary 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. ing Comprehension: Improve reading comprehension skills by understanding and interpreting a
			Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary 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. Improve reading comprehension skills by understanding and interpreting a variety of English texts, including fiction, non-fiction, and academic
			Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary 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. Improve reading comprehension skills by understanding and interpreting a variety of English texts, including
		• Read	Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary 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. Improve reading comprehension skills by understanding and interpreting a variety of English texts, including fiction, non-fiction, and academic articles.
			Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary 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. 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,
		• Read	Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary 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. 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,
237.	Teaching and Learning Strategies	• Read	Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary 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. 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,
237. Strategy	Teaching and Learning Strategies	• Read	Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation. bulary 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. 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,

239. Course Evaluation Distributing the score out of 100 according to the tasks assigned to the student such as depreparation, 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 discussions									
Week Hours Required Learning Outcomes name method method 239. Course Evaluation Distributing the score out of 100 according to the tasks assigned to the student such as depreparation, 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]	Practical experiment									
Week Hours Required Learning Outcomes name method method 239. Course Evaluation Distributing the score out of 100 according to the tasks assigned to the student such as depreparation, 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												
239. Course Evaluation Distributing the score out of 100 according to the tasks assigned to the student such as d 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	238. 0	238. Course Structure										
239. Course Evaluation Distributing the score out of 100 according to the tasks assigned to the student such as d 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	Week	Hours	Required Learnin	ng Unit o	r subject	Learning	Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as d 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			Outcomes	name		method	method					
Distributing the score out of 100 according to the tasks assigned to the student such as d 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												
Distributing the score out of 100 according to the tasks assigned to the student such as d 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												
Distributing the score out of 100 according to the tasks assigned to the student such as d 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												
Distributing the score out of 100 according to the tasks assigned to the student such as d 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												
Distributing the score out of 100 according to the tasks assigned to the student such as d 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												
Distributing the score out of 100 according to the tasks assigned to the student such as d 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	220. (
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				aganding to	h a ta alsa a asi aw	ad to the attenda	nt an ab ag daile					
Required textbooks (curricular books, if any) Main references (sources) Recommended books and references							ent such as daily					
Main references (sources) Recommended books and references	240.L	_earnin	g and Teaching F	Resources								
Recommended books and references	Required	d textbo	oks (curricular book	s, if any)								
	Main ref	erences	(sources)									
(acientific in uncle reports)	Recommended books and references											
(scientific journals, reports)	(scientific journals, reports)											
Electronic References, Websites	Electroni	ic Refer	ences, Websites									

Lectures using the smart board

	Program Skills Outline														
							Req	uired	progr	am L	earnin	g outcon	nes		
Year/Level	Course Course Code Name			Knov	Knowledge		Skills			Ethics					
			optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
		Parasitolo gy	*				*				*				*

	Course Description For	m	
241.	Course Name: Parasitology		
242.	Course Code:		
243.	Semester / Year: Second		
2023/2	•		
244.	Description Preparation Date:		
17/3/2	.024		
245.	Available Attendance Forms:		
	resence		
246.	Number of Credit Hours (Total) / Number of U	Inits (Total)	
2/T	/ 2/ P/ C/6		
247.	Course administrator's name (mention all,	if more than one nar	me)
	ne: Mohammad Rutha al sharifi	ii more than one hai	110)
	ail: mohammad.alsharifi @alkafeel.edu.iq		
	·		
248.	Course Objectives		
ourse Obje	ctives	•	Introc
			class
			paras to
			proto
			disea e
			the m ii
			,sym _i to
			hetho i
		•	
		•	
249.	Teaching and Learning Strategies	·	
trategy			
		1-lecture	
		2-Brainstormir 3-Strategy for p	_
		1-NECTED TO 1	TOVICIOO AVIII
		5 Strategy for j	providing ca
		5 Strategy for p	——————————————————————————————————————
	3	5 Strategy for j	———

250. Course Structure

250. Course	Structure					
Week		Hours	Required	Unit or subject	Le	ırnin
			Learning	name		
			Outcomes			
			Lecture	prasitology	Oı	al ar
	المفردات النظرية/ الطفيليات الطبية				W	ittin
Week	تفاصيل المفردات					
1	Terms and definitions					
	parasitology.					
	Parasite ,host, symbios					
	ectoparasite, endoparas					
	,accidental parasite, obliga					
	parasite, facultative paras					
	,host parasite relation sh					
	scientific nomenclature, type					
	life cycles, type of hosts mechanism of antiparasi					
	drugs.					
2	Introduction to protozoology					
	Organell of locomotion, mode					
	living, reproduction					
	classification of protozoa.					
3	Sacodina, Entamoe					
	histolytica.					
	Biology , medical importar					
	and clinical feature					
	amoebiasis:					
	1-Intestinal amoebiasis.					
	2-Extra intestinal amoebiasis					
	Lab. Diagnosis: 1.Direct meth					
	(G.S.E.).					
	2.Indirect					
	method (Serological tests).					
4	Entamoeba coli					
	Differntiation between					
	histolytica & E.coli					
	E. gingivalis.					
	Biology, medical importan					
	Lab. Diagnosis.					
5	4Small amoeba:					

П		T T
	Endolimax nana	
	Iodamoeba butschlii.	
	Biology of the stages,L	
	Diagnosis.	
	8 3 3	
6	Mastigophora, gene	
	characters.	
	Intestinal flagellates.	
	Giardia lamblia.	
	Chilomastix mesn	
	Dieantamoeba fragilis.	
	Biology & stages.	
	Diagnostic characters of	
7	stages.	
′	Genus Trichomonas.	
	T. vaginalis/ urogeni	
	flagellate.	
	T. hominis	
	T. tenax	
	Biology , medical importar	
	and Lab. Diagnosis of ea	
	species.	
8	Heamo- flagellates(blood	
	tissue flagellates),gene	
	characters.	
	Developmental stages in t	
	vertebrate & invertebrate hos	
	Genus leishmania ,species	
	leishmania, biology, vect	
	medical importance	
	eachspecies, types	
	leishmaiasis , life cycle ,L	
	Diagnosis, inclodi	
	immunological tests.	
9	Genus Trypanosoma, species	
	trypanosome, biology , vect	
	medical importance of ea	
	species, forms of parasite, l	
	cycle,Lab. Diagnosis.	
10	Ciliophora: Blantidium c	
	,Biology , medical importan	
	Lab. Diagnosis.	
	Apicomplex: General charcter	
<u> </u>	1 1 2 2 2 3 3 3 3 3 3	

T		
	Genus Toxoplasma.,T.gon	
	,Biology, medi	
	lmportance,acquired a	
	congenital toxoplasosis. L	
	cycle, role of domestical	
	animals in the transmission	
	the disease. Lab. Diagnosis.	
11	Genus plasmodium.	
	Introduction to malar	
	parasites, malarial paroxys	
	general life cycle of t	
	plasmodium , species	
	plasmodium.	
12	P.falciparum, P. vivax, P ovale	
	malarae	
	Disease, pathology, medi	
	importance, distribution, ma	
	differences during life cycle.	
13	General discussion on malar	
	parastes ,epidemiolo	
	methods of diagnosis. Time	
	take clinical samples.	
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14	Isopora, pathology, medi	
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15	Cryptosporidiadse	
15	Genus cryptosporidium, spec	
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17	Platyhelminth: Gene characters.	
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	Teania saginata:	
	Teania solium: Morphology	
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	stages of each species, biolo	
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10	Lab. Diagnosis	
18	Hymenolepis na Hymenolepis diminuta.	
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	Diplidium caninu	
	Diphyllobathrium latu	
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10	eachspecies,Lab. Diagnosis.	
19	Echinococcus granulosus.	
	Echinocuccus multilocularis.	
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20	cyst disease ,Lab. Diagnosis.	
20	Class Trematoda: Gene	
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	Genus Schistosoma.	
	Specis of human schistosor	
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	Schistosoma hematobium.	
	Schistosoma mansoni.	
	Biology of adult worm, habit	
21	pathgenicity,Lab.diagnosis	
21	Fasciula hepatica	
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	Nemathelminthis.	
	Clss Nemtoda, gene characters.	
22	Ascaris lambricoides	
22		
	Enterobius vermicularis.	
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23	Trichuris trichura.	
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	Trichenala spiralis. Biology , life cycle	
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24	Strogyloides stercoralis.	
27	on ogytotice stereoralis.	

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25	Diagnosis.		
25	Ancylostoma duaden		
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27	Sand fly, Black fly		
28	Mosqiutoes		
29	Ticks & Mites		
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251. Course	Evaluation		
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252. Learning	g and Teaching Resources		
Required textboo	oks (curricular books, if any)		
Main references	(sources)	 Medical parasi	to ogy
Recommended I	books and references (scientific journals, reports)		

Biology, life cycle, pathgenici medical importance, L

Electronic References, Websites