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

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	ame:
Final Certificate Name:	
Academic System:	
Description Preparation Date:	
File Completion Date:	
Signature:	Signature:
Head of Department Name:	Scientific Associate Name:
Date:	Date:
The file is checked by:	
Department of Quality Assurance and Un	niversity Performance
Director of the Quality Assurance and U	niversity Performance Department:
Date:	
Signature:	

Approval of the Dean

1. Program Vision

Program vision is written here as stated in the university's catalogue and website.

The branch attend gradguation our students will be able to work with the microbiologist team in health sector to ensure the teams optimal functioning and affective patients outcomes.

2. Program Mission

Program mission is written here as stated in the university's catalogue and website.

Our branch seek to get international accreditations ,rise to the global level in terms of the outcomes quality and graduated medical doctors who are highly effective in patients care medical education research and community service .

3. Program Objectives

General statements describing what the program or institution intends to

1- achieve.

Avoid making mistakes when writing medical reports.

- **2-** Knowing how to safely send cases
- **3-** Knowing the scientific methods for reading reports upon receiving medical cases from medical institutions.
- **4-** The correct methods for diagnosing general diseases of humans.

4. Program Accreditation

Does the program have program accreditation? And from which agency? The college has sent a request to get it.

5. Other external influences

Requirements

Is there a sponsor for the program?

teaching hospitals ,library, internet ,community

doctors syndicates

1- Field visits to public health laboratories.

2- In-person and electronic blended education via e-learning platforms (Classroom).

Number of	0 11/1		
	Credit hours	Percentage	Reviews*
Courses			
Two	Micro=190	٥,	
	Parasite=120		
	Immunity=75		
two	Micro=190	50	
	Parasite=120		
	Immunity=75		
	Micro=190		
	Parasite=120		
	Immunity=75		
in the laboratories			
of teaching			
hospital			
		other	
	Two two in the laboratories of teaching	Two Micro=190 Parasite=120 Immunity=75 two Micro=190 Parasite=120 Immunity=75 Micro=190 Parasite=120 Immunity=75 in the laboratories of teaching	Two Micro=190 Parasite=120 Immunity=75 two Micro=190 Parasite=120 Immunity=75 Micro=190 Parasite=120 Immunity=75 in the laboratories of teaching hospital

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

7. Program Description						
Year/Level	ear/Level Course Code Course Name Credit Hour					
			theoretical	practical		
Third	MPR301	First	30	30		
	Medical Protozoology	Second	30	30		
Third	MBM303	First	30	30		
	Medical bacteriology and mycology	Second	30	30		
Third	BMV305	First	15			
	Basic medical virology and DNA viral diseases	Second	15			

8. Expected learning	outcomes of the program	
Knowledge		
Learning Outcomes 4	Learning Outcomes Statement 4	
Learning Outcomes 5	Learning Outcomes Statement 5	
Learning outcome1:microbes nature with different structures, shapes and size.	Learning outcomes statements 1: gradguated students understanding microbes groups with their different structures.	
Skills		
Learning Outcomes 1 Learning outcomes 2:diagnoses these different microbes groups . Learning outcomes3: using the right tools and equipment's for each microbe .	Learning outcomes statements 2 : gradguated doctors diagnosis these microbes. Learning outcomes statements 3: gradguated doctors treat with precise drugs or antibiotics targeted against microbes	
Ethics		

permission for screening and isolation of microbes from the	Learning outcomes statements 4: permission, ethical rules deals with treatment with the microbes. Learning outcomes statements 5: awareness and biosafety when handling or isolating these microbes.

9. Teaching and Learning Strategies

Teaching and learning strategies and methods adopted in the implementation of the program in general.

- **1-** Theoretical lectures using illustrations.
- **2-** Practical application of the concepts that have been studied in specialized laboratories and teaching hospitals.
- **3-** Seminars (students are assigned a topic within the curriculum for presentation and discussion).

Solving scientific and medical problems by discussing their merits within small groups to reach the correct solution.

10. Evaluation methods

Implemented at all stages of the program in general.

10-The structure of the course for theoretical bacteriology/ third level / first course

Week	Hours	Required educational goals	Unit name and/or topic	Education method	Evaluation method
1	2	Introduction to medical Microbiology, classification, nutrition, growth, Bacterial virulence and 2 Bacterial genetics ,metabolism	Bacteriology	Electronic and attending lectures	Exam
2	2	Sterilization and disinfection	Bacteriology	Electronic and attending lectures	Exam
3	2	Antibiotics and chemotherapeutic agents	Bacteriology	Electronic and attending	Exam

				lectures	
4	2	Staphylococci	Bacteriology	Electronic and attending lectures	Exam
5	2	Streptococci	Bacteriology	Electronic and attending lectures	Exam
6	2	Gram negative cocci, Neisseria species	Bacteriology	Electronic and attending lectures	Exam
7	2	Gram positive non-spore forming bacilli, Corynebacterium diphtheria, Gram negative bacilli, H. influenza species	Bacteriology	Electronic and attending lectures	Exam
8	2	Exam	Bacteriology	attending lectures	Exam
9	2	Gram positive aerobic spore forming bacilli, Bacillus anthracis, B.subtilis, B. cereus	Bacteriology	Electronic and attending lectures	Exam
10	2	Gram negative spore forming bacilli, Clostridia species	Bacteriology	Electronic and attending lectures	Exam
11	2	Gram negative bacilli, Bordetella species& Yersinia species	Bacteriology	Electronic and attending lectures	Exam
12	2	Gram negative bacilli, Compylobacter, H.pylori	Bacteriology	Electronic and attending lectures	Exam
13	2	Gram negative enteric bacilli, Pseudomonas and other G negative species	Bacteriology	Electronic and attending lectures	Exam
14	2	Gram negative enteric bacilli	Bacteriology	Electronic and attending lectures	Exam
15	2	Exam	Bacteriology	attending lectures	Exam

• The structure of the course for practical bacteriology/ third level / first course

Week	Hours	Required educational	Unit name	Education	Evaluation
		goals	and/or topic	method	method
1	2	Preparation of culture media	Bacteriology	Electronic and attending lectures	Exam
2	2	Mode of Sterilization and	Bacteriology	Electronic and	Exam

		disinfection		attending lectures	
3	2	Antibacterial susceptibility	Bacteriology	Electronic and	Exam
		test		attending lectures	
4	2	Diagnostic methods of	Bacteriology	Electronic and	Exam
		Staphylococci		attending lectures	
5	2	Diagnostic methods of	Bacteriology	Electronic and	Exam
		Streptococci		attending lectures	
6	2	Diagnostic methods of	Bacteriology	Electronic and	Exam
		Neisseria		attending lectures	
7	2	Diagnostic methods of	Bacteriology	Electronic and	Exam
		Corynebacterium diphtheria&		attending lectures	
		H. influenza species			
8	2	Exam	Bacteriology	attending lectures	Exam
9	2	Diagnostic methods of	Bacteriology	Electronic and	Exam
		Bacillus anthracis, B.subtilis,		attending lectures	
		B. cereus			
10	2	Diagnostic methods of	Bacteriology	Electronic and	Exam
		Clostridia species		attending lectures	
11	2	Diagnostic methods of	Bacteriology	Electronic and	Exam
		Bordetella species& Yersinia		attending lectures	
10		species	D	T1	-
12	2	Diagnostic methods of	Bacteriology	Electronic and	Exam
10		Compylobacter, H.pylori	D	attending lectures	-
13	2	Diagnostic methods of	Bacteriology	Electronic and	Exam
1.4		Enterobactereace	B	attending lectures	
14	2	Diagnostic methods of	Bacteriology	Electronic and	Exam
4.7	1	Enterobactereace		attending lectures	
15	2	Exam	Bacteriology	Electronic and	Exam
				attending lectures	

• The structure of the course for theoretical bacteriology/ third level / second course

Week	Hours	Required educational goals	Unit name and/or topic	Education method	Evaluation method
1	2	E. coli	Bacteriology	Electronic and attending lectures	Exam
2	2	Klebsiella	Bacteriology	Electronic and attending lectures	Exam
3	2	Proteus	Bacteriology	Electronic and attending lectures	Exam
4	2	Salmonella	Bacteriology	Electronic and attending lectures	Exam

	G1 ' 11	D	T1	-
2	Shigella	Bacteriology		Exam
			attending lectures	
2	Vibrio cholera	Bacteriology	Electronic and	Exam
			attending lectures	
2	Vibrio parahemolyticus	Bacteriology	Electronic and	Exam
			attending lectures	
2	Mycobacterium species and	Bacteriology	Electronic and	Exam
	Mycobacterium tuberculosis		attending lectures	
2	Chlamydia, and Treponema	Bacteriology	Electronic and	Exam
			attending lectures	
2	Rickettsia	Bacteriology	Electronic and	Exam
			attending lectures	
2	Mycoplasma	Bacteriology	Electronic and	Exam
			attending lectures	
2	Exam	Bacteriology	Attending lectures	Exam
2	Introduction to medical	Mycology	Electronic and	Exam
	mycology		attending lectures	
2	Dermatophytes	Mycology	Electronic and	Exam
			attending lectures	
2	Aspergillosis	Mycology	Electronic and	Exam
			attending lectures	
	2 2 2 2 2 2 2	2 Vibrio cholera 2 Vibrio parahemolyticus 2 Mycobacterium species and Mycobacterium tuberculosis 2 Chlamydia, and Treponema 2 Rickettsia 2 Mycoplasma 2 Exam 2 Introduction to medical mycology 2 Dermatophytes	2 Vibrio cholera Bacteriology 2 Vibrio parahemolyticus Bacteriology 2 Mycobacterium species and Mycobacterium tuberculosis 2 Chlamydia, and Treponema Bacteriology 2 Rickettsia Bacteriology 2 Mycoplasma Bacteriology 2 Exam Bacteriology 2 Introduction to medical Mycology 2 Dermatophytes Mycology	2 Vibrio cholera Bacteriology Electronic and attending lectures 2 Vibrio parahemolyticus Bacteriology Electronic and attending lectures 2 Mycobacterium species and Mycobacterium tuberculosis Electronic and attending lectures 2 Chlamydia, and Treponema Bacteriology Electronic and attending lectures 2 Rickettsia Bacteriology Electronic and attending lectures 2 Rickettsia Bacteriology Electronic and attending lectures 2 Mycoplasma Bacteriology Electronic and attending lectures 2 Exam Bacteriology Attending lectures 2 Introduction to medical Mycology Electronic and attending lectures 2 Dermatophytes Mycology Electronic and attending lectures

• The structure of the course for practical bacteriology/ third level / second course

Week	Hours	Required educational goals	Unit name and/or topic	Education method	Evaluation method
1	2	Rickettsia	Bacteriology	Electronic and attending lectures	Exam
2	2	Mycoplasma	Bacteriology	Electronic and attending lectures	Exam
3	2	Laboratory Diagnosis of Viral Infections	Bacteriology	Electronic and attending lectures	Exam
4	2	Overview of Laboratory Diagnostic Methods.	Bacteriology	Electronic and attending lectures	Exam
5	2	The Basics of Immunofluorescence & Immunohistochemistry.	Bacteriology	Electronic and attending lectures	Exam
6	2	Solid Phase Immunoassay (RIA & ELISA) & Unlabeled Methods.	Bacteriology	Electronic and attending lectures	Exam
7	2	Molecular Techniques (PCR & RT-PCR).	Bacteriology	Electronic and attending lectures	Exam
8	2	Indirect Methods (Virus	Bacteriology	Electronic and	Exam

		Isolation) - Cell Culture.		attending lectures	
9	2	Exam	Bacteriology	Attending lectures	Exam
10	2	Introduction to mycology	Mycology	Electronic and attending lectures	Exam
11	2	Molds medical importance	Mycology	Electronic and attending lectures	Exam
12	2	Candidiases	Mycology	Attending lectures	Exam
13	2	Exam	Mycology	Electronic and attending lectures	Exam
14	2	Rickettsia	Mycology	Electronic and attending lectures	Exam
15	2	Mycoplasma	Mycology	Attending lectures	Exam

• The structure of the course for theoretical virology / third level / first course

Week	Hours	Required educational goals	Unit name and/or topic	Education method	Evaluation method
1	1	viral replication	Virology	Electronic and attending lectures	Exam
2	1	pathogenesis of virus	Virology	Electronic and attending lectures	Exam
3	1	viral vaccine	Virology	Electronic and attending lectures	Exam
4	1	herpes virus HSV	Virology	Electronic and attending lectures	Exam
5	1	Varicella _zoster virus	Virology	Electronic and attending lectures	Exam
6	1	Ebstan barr virus (EBV)	Virology	Electronic and attending lectures	Exam
7	1	poxvirus +molluscum contagiosum virus	Virology	Electronic and attending lectures	Exam
8	1	Papillomavirus	Virology	Electronic and attending lectures	Exam
9	1	Parvovirus	Virology	Electronic and attending lectures	Exam
10	1	Adenovirus	Virology	Electronic and attending lectures	Exam
11	1	Hepatitis B virus	Virology	Electronic and attending lectures	Exam
12	1	Exam	Virology	Attending lectures	Exam

• The structure of the course for theoretical virology / third level / second course

Week	Hours	Required educational	Unit name and/or	Education	Evaluation
		goals	topic	method	method

1	1	RSV & Parainfluenza Viruses.	Virology	Electronic and attending lectures	Exam
2	1	Mumps Virus & Measles Morbillivirus.	Virology	Electronic and attending lectures	Exam
3	1	Poliovirus.	Virology	Electronic and attending lectures	Exam
4	1	Rotavirus (Part 1).	Virology	Electronic and attending lectures	Exam
5	1	Rotavirus (Part 2).	Virology	Electronic and attending lectures	Exam
6	1	Hepatitis A Virus.	Virology	Electronic and attending lectures	Exam
7	1	Hepatitis E Virus.	Virology	Electronic and attending lectures	Exam
8	1	Hepatitis C, D, & G Viruses.	Virology	Electronic and attending lectures	Exam
9	1	Rubella Virus.	Virology	Electronic and attending lectures	Exam
10	1	Rabies Virus.	Virology	Electronic and attending lectures	Exam
11	1	Coronaviruses (Part1)	Virology	Electronic and attending lectures	Exam
12	1	Coronaviruses (Part 2)	Virology	Electronic and attending lectures	Exam
13	1	Arthropod Borne & Rodent Borne Viral Diseases (Part 1).	Virology	Electronic and attending lectures	Exam
14	1	Arthropod Borne & Rodent Borne Viral Diseases (Part 2).	Virology	Electronic and attending lectures	Exam
15	1	Exam	Virology	Attending lectures	Exam

• The structure of the course for theoretical parasitology/ third level / first course

Week	Hours	Required educational goals	Unit name and/or topic	Education method	Evaluation method
1	2	Introduction of Protozoa	Parasitology	Electronic and attending lectures	Exam
2	2	Sarcodina)Pathogenic Entamoeba & Non-pathogenic Entamoeba	Parasitology	Electronic and attending lectures	Exam
3	2	(Mastigophora)Luminal	Parasitology	Electronic and attending lectures	Exam
4	2	flagellate parasite (Giardia	Parasitology	Electronic and	Exam

		Lumbelia, Chilomestic mesnil)		attending lectures	
5	2	Genital Flagellate (Trichomonas vaginalis)	Parasitology	Electronic and attending lectures	Exam
6	2	Blood flagellate (Trypanosomiasis) Leishmaniasis Plasmodium Apicomplexa (Toxoplasma gondii) (Cryptococcus) (Isospora).	Parasitology	Electronic and attending lectures	Exam
7	2	Ciliated protozoa (Balantidium coli)	Parasitology	Electronic and attending lectures	Exam
8	2	Exam	Parasitology	Attending lectures	Exam

• The structure of the course for theoretical parasitology / third level / second course

Week	Hours	Required educational	Unit name	Education	Evaluation
		goals	and/or topic	method	method
1	2	Helminthology	Parasitology	Electronic and	Exam
		(platyhelminth): (Trematoda)		attending lectures	
2	2	Intestinal flukes (Fasciolopsis	Parasitology	Electronic and	Exam
		buski, Heterophyes		attending lectures	
		heterophyes)			
3	2	Blood flukes (Schistosoma	Parasitology	Electronic and	Exam
		mansoni, Schistosoma		attending lectures	
		plasmodium, Schistosoma			
		falciparum)			
4	2	Liver flukes (Fasciola	Parasitology	Electronic and	Exam
		hepatica, Clonorchis sinensis)		attending lectures	
5	2	Lung flukes (Paragonimus	Parasitology	Electronic and	Exam
		westermani)		attending lectures	
6	2	Helminthology	Parasitology	Electronic and	Exam
		(platyhelminth): (Cestoda)		attending lectures	
7	2	Taenia solium, Taenia	Parasitology	Electronic and	Exam
		saginata		attending lectures	
8	2	Echinococcus granulosus	Parasitology	Electronic and	Exam
				attending lectures	
9	2	Hymenolepis nana,	Parasitology	Electronic and	Exam
		Hymenolepis diminuta,		attending lectures	
		dipylidum caninum)			
10	2	Nemathelminthes	Parasitology	Electronic and	Exam
		(Nematoda)		attending lectures	

11	2	Ascars lumbercoides, Toxicara canis, Toxicara cati	Parasitology	Electronic and attending lectures	Exam
12	2	Ancylostoma species, Necator American	Parasitology	Electronic and attending lectures	Exam
13	2	Strongyloides, Enterobius vermicularis	Parasitology	Electronic and attending lectures	Exam
14	2	Trichonella sparilis, Wuchereria bancrofti, loa loa	Parasitology	Electronic and attending lectures	Exam
15	2	Exam	Parasitology	Electronic and attending lectures	Exam

• The structure of the course for practical parasitology/ third level / first course

Week	Hours	Required educational goals	Unit name	Education	Evaluation
			and/or topic	method	method
1	2	Lab diagnosis	Parasitology	Electronic and	Exam
		Introduction of Protozoa		attending lectures	
2	2	Sarcodina) Pathogenic	Parasitology	Electronic and	Exam
		Entamoeba & Non-pathogenic		attending lectures	
		Entamoeba			
3	2	(Mastigophora)Luminal	Parasitology	Electronic and	Exam
				attending lectures	
4	2	flagellate parasite (Giardia	Parasitology	Electronic and	Exam
		Lumbelia, Chilomestic mesnil)		attending lectures	
5	2	Genital Flagellate	Parasitology	Electronic and	Exam
		(Trichomonas vaginalis)		attending lectures	
6	2	Blood flagellate	Parasitology	Electronic and	Exam
		(Trypanosomiasis)		attending lectures	
		Leishmaniasis Plasmodium			
		Apicomplexa (Toxoplasma			
		gondii) (Cryptococcus)			
		(Isospora).			
7	2	Ciliated protozoa (Balantidium	Parasitology	Electronic and	Exam
		coli)		attending lectures	
8	2	Exam	Parasitology	Electronic and	Exam
				attending lectures	

• The structure of the course for practical parasitology / third level / second course

Week	Hours	Required educational goals	Unit name	Education	Evaluation
			and/or topic	method	method
1	2	Helminthology (platyhelminth): (Trematoda)	Parasitology	Electronic and attending lectures	Exam
2	2	Intestinal flukes (Fasciolopsis	Parasitology	Electronic and	Exam

		buski, Heterophyes heterophyes)		attending lectures	
3	2	Blood flukes (Schistosoma mansoni, Schistosoma plasmodium, Schistosoma falciparum)	Parasitology	Electronic and attending lectures	Exam
4	2	Liver flukes (Fasciola hepatica, Clonorchis sinensis)	Parasitology	Electronic and attending lectures	Exam
5	2	Lung flukes (Paragonimus westermani)	Parasitology	Electronic and attending lectures	Exam
6	2	Helminthology (platyhelminth):(Cestoda)	Parasitology	Electronic and attending lectures	Exam
7	2	Taenia solium, Taenia saginata	Parasitology	Electronic and attending lectures	Exam
8	2	Echinococcus granulosus	Parasitology	Electronic and attending lectures	Exam
9	2	Hymenolepis nana, Hymenolepis diminuta, dipylidum caninum)	Parasitology	Electronic and attending lectures	Exam
10	2	Nemathelminthes(Nematoda)	Parasitology	Electronic and attending lectures	Exam
11	2	Ascars lumbercoides, Toxicara canis, Toxicara cati	Parasitology	Electronic and attending lectures	Exam
12	2	Ancylostoma species, Necator American	Parasitology	Electronic and attending lectures	Exam
13	2	Strongyloides, Enterobius vermicularis	Parasitology	Electronic and attending lectures	Exam
14	2	Trichonella sparilis, Wuchereria bancrofti, loa loa	Parasitology	Electronic and attending lectures	Exam
15	2	Exam	Parasitology	Attending lectures	Exam

• The structure of the course for practical immunology / third level / first course

Week	Hours	Required educational goals	Unit name and/or topic	Education method	Evaluation method
1	2	Agglutination	immunology	Electronic and attending lectures	Exam
2	2	Precipitation	immunology	Electronic and attending lectures	Exam
3	2	Hemagglutination & Hemagglutination Inhibition	immunology	Electronic and attending lectures	Exam
4	2	Complement Fixation	immunology	Electronic and attending lectures	Exam
5	2	Immunoflourscent assay	immunology	Electronic and	Exam

				attending lectures	
6	2	Radioimmunoassay	immunology	Electronic and attending lectures	Exam
7	2	Enzyme- Linked Sorbent - Immunoassay	immunology	Electronic and attending lectures	Exam
8	2	Enzyme-linked –Immuno- Fluorescent assay	immunology	Electronic and attending lectures	Exam
9	2	Immunochromatography (Lateral Flow Assay)	immunology	Electronic and attending lectures	Exam
10	2	Immunohistochemistry (IHC)	immunology	Electronic and attending lectures	Exam
11	2	Exam	immunology	Attending lectures	Exam

11. Faculty

Faculty Members

Academic Rank	Specialization		Special	Number of the teaching staff			
			Requirements				
			(if applicable)				
	General	Special		Staff	Lecture		
1- Doctorate	Medical	MD		1- Prof.Dr.Ismail			
1- Doctorate	microbiology	medical		Ibrahim Latif			
2- Doctorate	Biotechnology	mycology					
	210000111101089	medical		2- Prof.Dr. Luma			
	Microbiology	bacteriology		Taha Ahmed			
3- Doctorate	Microbiology	medical					
4- Doctorate		parasitology		3- Prof.Dr.Burooj			
	Microbiology			Mohammad			
		bacteriology		Razooqi			
5- Doctorate				_			
	Medical			4- Assist.prof.Dr.			
	microbiology			Mohammed			
6- Doctorate				J.Shaker .			
	Medical	medical					
	microbiology	parasitology		5- Assist.prof			
7- Doctorate				Dr.Anfal sh.			
	microbiology			Motaab			
	microbiology						
8- Doctorate	Medical	Genetic		6- Assist.prof Dr.			
	microbiology	engineering		Shaima Raheem			
9- Doctorate.		engineering		Hussein.			
	Medical						
	microbiology			- A . A . CO. D			
10- Master	Medical			7- Assist.Proff.Dr.			
11- Master	microbiology			Rawaa Abdul			
12- Master				Khaleq Hussein			
13- Master	Medical						
44.35	microbiology						
14- Master				8- Lec.Dr.Eptissam			
15- Master				Younan Bergo			
16- Master				9- Lec.Dr. Adnan			
17- Master 18- Master				yaas Khudair			
19-Master							
19-master				10- Lec. Hiba Hadi			
				Rasheed			
				11- Assist. Lec. Noor			
				I. Zaidan			

	12- Assist. Lec. Sarah Ali Daowd 13- Assist. Lec. Sura Adnan 14- 14- Assist. Lec. Ghazwan Sabah Kamel 15- Assist. Lec. Aliaa Hashim 16- Assist. Lec. Mustafa ahmed daowd. 17- Assist. Lec.Aliaa Younes Hashim 18- Assist. Lec.Raghad Imad Salman
	Salman 19-Assist. Lec Tadhamn
	Hussain Abdullah

Professional Development

Mentoring new faculty members

Resent college members will get orientation simenars end regular meetings to familiarize them with the work ,dialy supervision, going followup, guidance and instruction

Professional development of faculty members

Continous trenning will achieved through participating in varoius lab, attending, simnars and spacielised sientific symposia, and searching for advancement online and in libarires

12. Acceptance Criterion

Compiling the online application will done after the ministry of higher education and scientific research centerally prosesses admessiones based on test scores in the scientific branch of the twevlth grade of the high school.

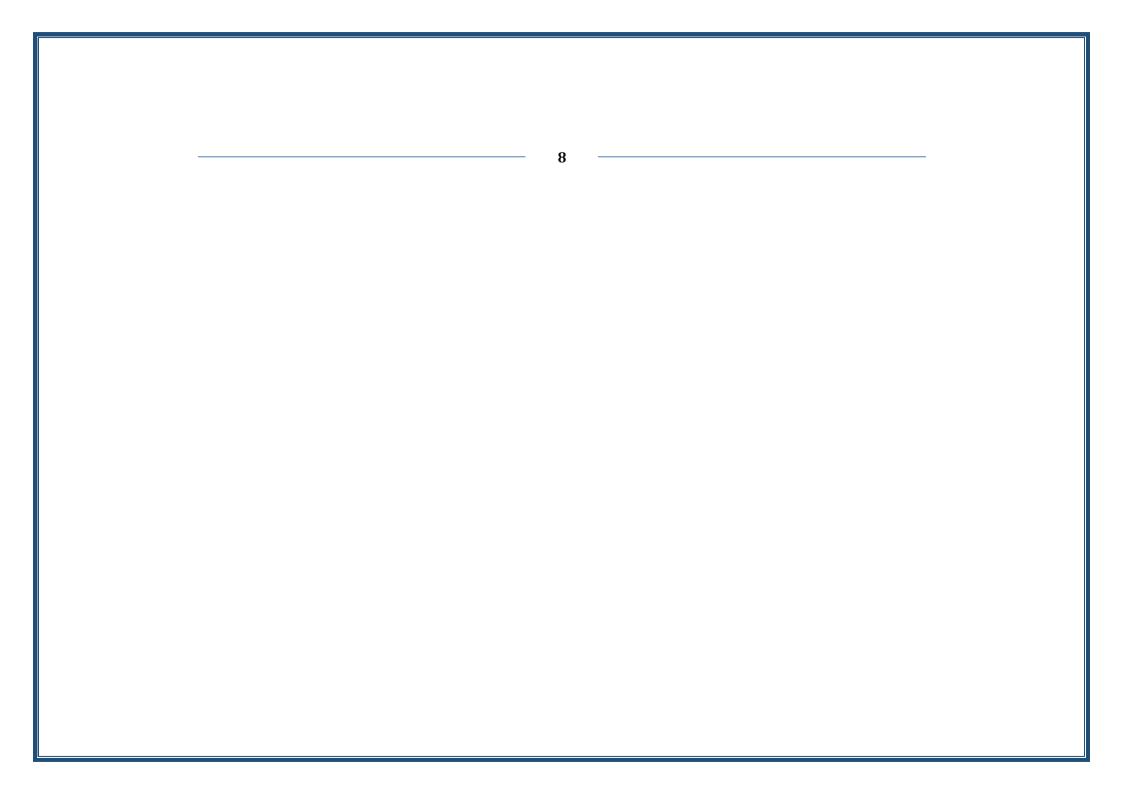
13. The most important sources of information about the program

University and college website in addition to website of the ministry of higher education and scientific research along with college library and university's central library

14. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name			Knowledge			Skills			Ethics				
		Name	optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	С3	C4
Third	MPR301	First	Basic												
	Medical Protozoology	Second													
Third		First	Basic	$\sqrt{}$	V	V			$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	V		
	Medical bacteriology and mycology	Second													
Third		First	Basic	$\sqrt{}$	V	V			$\sqrt{}$	$\sqrt{}$	V	$\sqrt{}$	V		
	Basic medical virology and DNA viral diseases	Second													
Third	BMI307	First	Basic	V	V	$\sqrt{}$			$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$		
	Basic medical immunology	Second													

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



Course Description Form

1. Course Name: **Microbiology** 2. Course Code: MBM303 (Medical bacteriology and mycology) 2. MPR301 (Medical Protozoology) 2. BMV305 (Basic medical virology and DNA viral diseases) BMI307 (Basic medical immunology) 3. Semester / Year: **2023 -2024** 4. Description Preparation Date: 1/2/2024 5. Available Attendance Forms: : mandatory attendence 6. Number of Credit Hours (Total) / Number of Units (Total) Credit Hours (60) / Number of Units (5) (Medical bacteriology and mycology) Credit Hours (90) / Number of Units (6) MPR301 (Medical Protozoology) Credit Hours (30) / Number of Units (2) BMV305 (Basic medical virology and DNA viral diseases) Credit Hours (75) / Number of Units (4) BMI307 (Basic medical immunology) 7. Course administrator's name (mention all, if more than one name) Name: Name: Prof. Dr. Ismail Ibrahim Latif Prof. Dr. Luma Taha Ahmed Prof. Dr. Burooj Mohammed Razoge Prof.Dr. Areej Hussein Ateea Assist. Prof. Dr. Mohammed jasem shaker Assist, Prof. Dr. Anfal shaker motib Assist. Prof. Dr. rawaa abdel Khalik Lecturer Dr. Adnan Yaas Khudair

Email:

lum@uodiyla.edu.i

q

8. Course Objectives

Course Objectives

- 1- Being able to apply the result of the theoretical study in practice while dealing with disease states.
- **2-** Being able to use modern devin studying the functions of boorgans and diagnosing disease conditions.

Being able to conduct scientific studies and research to solve the problems of the individuand society.

9. Teaching and Learning Strategies

Strategy

- 1-Theoretical lectures using illustrations.
- 2-Practical application of the concepts that have been studied in specialized laboratories and teaching hospitals.
- 3-Seminars (students are assigned a topic within the curriculum for presentation and discussion).

Solving scientific and medical problems by discussing their merits within small groups to reach the correct solution.

10. Course Structure

Week	Hours	Required Learning	Unit or subject		Learning	Evaluation
		Outcomes	name		method	method
15	30	MPR301		First	lectures	exam
	30	Medical Protozoology		Second	lectures	exam
15	30 30	MBM303		First	lectures	exam
		Medical bacteriology a	nd mycology	Second	lectures	exam
15	15	BMV305		First	lectures	exam
	15	Basic medical virology diseases	and DNA viral	Second	lectures	exam
15	22	BMI307		First	lectures	exam
	22	Basic medical immunology		Second	lectures	exam

11.Cours Evaluation

- **1-** Daily theory and practical exams
- **2-** Half-course and end-of-course exams

Seminars (assigning each student a topic for presentation and discussion)

12. Learning and Teaching Resources

Parasites

- Markell and Voges medical parasitology 9th edition 2006
- Roberts and janovy foundation parasitology 1996
- Marquardt ,Dermaree and Grieve parasitology and vector biology 2000

Microbiology

- Madigan M; Martinko J, eds. (2006). Brock Biology of Microorganisms (13th ed.). Pearson Education. p. 1096.
- Washington, JA (1996). "10 Principles of Diagnosis". In Baron, S (ed.). Medical Microbiology (4th ed.). University of Texas Medical Branch at Galveston.

Virology

• Fenner F (2009). Mahy BW, Van Regenmortal MH (eds.). *Desk Encyclopedia of General Virology* (1 ed.). Oxford: Academic Press. p. 15.

Immunology

Goldsby RA, Kindt TK (2003). Immunology (5th ed.). San Francisco: W.H. Freeman.