

Republic of Iraq
Ministry of Higher Education & Scientific
Research Supervision and Scientific
Evaluation Directorate Quality Assurance
and Academic Accreditation International
Accreditation Dept.

Academic Program Specification Form for the Academic

University: University of Basrah
College: College of Medicine
Date of Form Completion: 2021-2022

Dean's Name
Prof. Dr. Murtadha
Almusafer

Dean's Assistant for
Scientific Affairs
Prof. Dr. Murtadha
Almusafer

Date: / /

Signature

The Head of Department
Assist. Prof. 9

Dr. Wijdan Nazar Ibraheim

Date: 26 / 4 / 2022

Signature

Quality Assurance and University Performance
Manager Date: / 11 / 5 / 2022

Signature

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TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This Program Specification provides a concise summary of the main features of the program and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the program.

1. Teaching Institution	University of Basrah
2. University Department/Centre	College of Medicine/ Microbiology Department
3. Program Title	Microbiology
4. Title of Final Award	Bachelor in Medicine
5. Modes of Attendance offered	Annual theoretical lectures and practical lessons
6. Accreditation	Iraqi Accreditation council for medical college in Iraq
7. Other external influences	Reciprocal visits with other universities
8. Date of production/revision of this specification	2021/2022
9. Aims of the Program	
	- Introduce students to medical microorganisms, as they are pathogens.
	- Familiarize students with different laboratory diagnostic methods
	- Familiarize students with how to determine and evaluate the results of diagnostic methods

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Cognitive goals

- A1. Dissemination of scientific knowledge of medical microbiology
- A2. Determining the different diagnostic methods regarding to the scientific basis
- A3. Students acquire diagnostic skills and link results to pathogenic cases
- A4. Consolidation of scientific diagnostic knowledge about the available methods that serve the medical practice and the patient

B. The skills goals special to the program.

- B1. Scientific skill in diagnosing pathogenic bacteria
- B2. Identify the available devices and technologies to achieve maximum benefit
- B3. Conducting laboratory experiments that serve medical knowledge

Teaching and Learning Methods

- Interactive lectures including theoretical material
- Lectures and practical experiments according to small groups
- Discussions in small groups and in dialogue sessions between students under supervision of teachers

Assessment methods

- Short exam after discussions
- Evaluation of practical performance in laboratories through Logbook
 - C1. Guiding students with commitment and dedication to seeking knowledge specifically medical knowledge
 - C2. Orienting students towards ideals and higher moral values
 - C3. Develop the spirit of work as they are future doctors in order to enhance the professional side
- Mid-year and final exams

Affective and value goals

- prepare highly oriented doctor with background in medically importance microbial pathogens

Teaching and Learning Methods

- Teaching according to modern curricula and encouraging intellectual description
- Develop the spirit of self-learning among students and stability in learning

Assessment methods

- Daily or weekly exams in practical and theoretical materials
- Mid-year theoretical and practical exams
- Final exams

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1. Training students to use and evaluate laboratory data and link them to clinical cases

D2. Examination of clinical samples and training in various laboratory techniques

D3. Gaining preparatory skills that develop the student's diagnostic skills

Teaching and Learning Methods

- Using modern methods of education

Assessment Methods

- Examinations and discussions

11. Program Structure

Level/Year	Course or Module Code	Course or Module Title Microbiology	Credit rating (180 Practical 90 Theory)	12. Awards and Credits
Third Year		Classification and Grouping of bacteria	1	Bachelor Degree Requires (x) credits
		Bacterial cytology	2	
		Growth of bacteria & Cultivation	1	
		Nutritional requirements of microorganisms	1	
		Microbial Metabolism: Principles , Regulation & Applications	2	
		Pathogenesis of bacterial infections & Germ theory of diseases	1	
		Microbial genetics	2	
		Sterilization & disinfectants	1	
		Antimicrobial chemotherapy & resistance	2	

		Part II. systematic medical bacteriology Gram positive cocci: <i>Staphylococcus & Streptococcus & Enterococcus</i>	3
		Spore forming Gram positive bacilli (aerobic & anaerobic): <i>Bacillus & Clostridium</i>	2
		Non-spore forming Gr+ve & -ve bacilli: <i>Propionibacterium & Listeria Corynebacterium & related spp.</i>	1
		<i>Mycobacterium</i>	2
		Enteric Gr-ve rods: Enterobacteriaceae <i>E.coli , Klebsiella , Proteus , Pseudomonas, Yersinia , Acinetobacter, Shigella , Salmonella & others</i>	4
		<i>Vibrio , Aeromonas , plesiomonas</i>	1
		<i>Campylobacter , Helicobacter</i>	1
		<i>Mycoplasma</i>	1
		Rickettsial diseases	2
		<i>Francisella , Pasteurella , Haemophilus , Bordetella and Brucella</i>	2
		Legionella & unusual bacterial pathogens	1
		Spirochaetes & spiral bacteria , Neisseria , Chlamydia (STD pathogens)	2
		Part III. general VIROLOGY General properties & Classification of viruses , cultivation Replication of viruses	1

		Natural history & mode of transmission Pathogenesis & control of viral diseases	1
		Host responses to viral infections	1
		Prevention & treatment of viral diseases	1
		adenovirus & poxvirus	1
		Herpes viruses : HSV-1 , HSV-2 , V2V , CMV , EBV	2
		Orthomyxoviruses	1
		Paramyxovirus & Rubella viruses Paramyxovirus & Rubella viruses	1
		picornaviruses	1
		Viral hepatitis	2
		Viral gastroenteritis	1
		Rhabdovirus & rabies	1
		Arbovirus	1
		Oncogenic viruses	1
		Retroviruses & HIV infection	1
		Corona virus	1
		Part V. Basic & Clinical Immunology <u>Basic immunology</u> Basis of body defense: specific & non specific <u>Basic immunology</u> Basis of body defense: specific & non specific <u>Basic immunology</u> Basis of body defense: specific & non specific	1

		Immune responses	2
		Humoral Immunity	1
		Cell-mediated immunity	2
		The complement system	1
		Antigen-antibody reactions Antigen-antibody reactions	1
		MHC: structure& diseases	1
		<u>Clinical immunology</u> Transplantation immunology	1
		Hypersensitivity reactions	2
		Tolerance & Autoimmunity	2
		Immunodeficiency diseases	1
		Tumor immunity	1
		Part VI. MEDICAL MYCOLOGY Structure, classification, superficial mycosis , subcutaneous mycosis Systemic mycosis and opportunistic fungi	4

13. Personal Development Planning

- Preparing Logbook for this academic year
- Start with the strategy of (Preparation day) before each lecture or practical lesson
- Curriculum review

14. Admission criteria

- Central Admission – Morning Studies
- Direct application for evening studies – according to the rate and competition

15. Key sources of information about the program

Knowing the courses in centers and universities with equivalent specializations globally

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification.

1. Teaching Institution	College of Medicine
2. University Department/Centre	Microbiology Department
3. Course title/code	Microbiology
4. Modes of Attendance offered	Annual
5. Semester/Year	2 Semesters/Year
6. Number of hours tuition (total)	180 90
7. Date of production/revision of this specification	
8. Aims of the Course	
	- Introduce students to medical microorganisms as they are pathogens.
	- Familiarize students with different laboratory diagnostic methods
	- Familiarize students with how to determine and evaluate the results of diagnostic methods

9. Learning Outcomes, Teaching ,Learning and Assessment Method

A- Cognitive goals .

- A1. Dissemination of scientific knowledge of medical microbiology
- A2. Determining the different diagnostic methods regarding to the scientific basis
- A3. Students acquire diagnostic skills and link results to pathogenic cases
- A4. Consolidation of scientific diagnostic knowledge about the available methods that serve the medical practice and the patient

C. The skills goals special to the course.

- B1. Scientific skill in diagnosing pathogenic bacteria
- B2. Identify the available devices and technologies to achieve maximum benefit
- B3. Conducting laboratory experiments that serve medical knowledge

Teaching and Learning Methods

- Interactive lectures including theoretical material
- Lectures and practical experiments according to small groups
- Discussions in small groups and in dialogue sessions between students under supervision of teachers

Assessment methods

- Daily or weekly exams in practical and theoretical materials
- Mid-year theoretical and practical exams
- Final exams

C. Affective and value goals

- C1. - prepare highly oriented doctor with background in medically importance microbial pathogens

Teaching and Learning Methods

- Interactive lectures including theoretical material
- Lectures and practical experiments according to small groups
- Discussions in small groups and in dialogue sessions between students under supervision of teachers

Assessment methods

- Short exam after discussions
- Evaluation of practical performance in laboratories
 - C1. Guiding students with commitment and dedication to seeking knowledge specifically medical knowledge
 - C2. Orienting students towards ideals and higher moral values
 - C3. Develop the spirit of work as they are future doctors in order to enhance the professional side

- Mid-year and final exams

D. General and rehabilitative transferred skills (other skills relevant to employability and personal development)

D1. - Preparing Logbook for this academic year

- Start with the strategy of (Preparation day) before each lecture or practical lesson
- Curriculum review

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
35	35	Prepare highly oriented doctor with basic knowledge of pathogenic microorganisms	Bacteriology	- Interactive lectures including theoretical material - experiments according to small groups - Discussions in small groups and in dialogue sessions between students under supervision of teachers	Lab exercises Illustrated slides Cases discussion Review sessions
17	17		Immunology		
19	19		Virology		
4	4		Mycology		
Total	75 hours				

11. Infrastructure

1. Books Required reading:

<u>Title</u>	<u>Author</u>
_ Text Book of Microbiology (vol I & II)	Mackie & MacCartney
_ Diagnostic Microbiology	Bailey & Scot
_ Text Book of Microbiology	Ananthanaryan
_ Text Book of Microbiology	
_ Text Book of Parasitology	CP Baveja
KD Chatteraji	
_ Review of Medical Microbiology 2014	Jawetz

<p>2. Main references (sources)</p>	<table border="0"> <thead> <tr> <th style="text-align: left;"><u>Title</u></th> <th style="text-align: right;"><u>Author</u></th> </tr> </thead> <tbody> <tr> <td>_ Microbiology and Microbial Infection Wilson (Vol I- VI)</td> <td style="text-align: right;">Topley &</td> </tr> <tr> <td>_ Colour Atlas & Text Book of Diagnostic Koneman Microbiology</td> <td style="text-align: right;">Ivan</td> </tr> <tr> <td>_ Immunology Roitt</td> <td></td> </tr> <tr> <td>_ Text Book of Mycology Emmons</td> <td></td> </tr> <tr> <td colspan="2">- All lectures are available at the college of medicine website</td> </tr> </tbody> </table>	<u>Title</u>	<u>Author</u>	_ Microbiology and Microbial Infection Wilson (Vol I- VI)	Topley &	_ Colour Atlas & Text Book of Diagnostic Koneman Microbiology	Ivan	_ Immunology Roitt		_ Text Book of Mycology Emmons		- All lectures are available at the college of medicine website	
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<p>A- Recommended books and references (scientific journals, reports...).</p>													
<p>B-Electronic references, Internet sites...</p>													
<p>12. The development of the curriculum plan</p> <ul style="list-style-type: none"> - The department will prepare Logbook for practical sessions - The department will provide practical training for students in the hospital's laboratories. 													

