

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2024

Introduction:

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

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

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

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

Concepts and terminology:

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

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

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

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

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

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

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

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are

followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: University of Baghdad

Faculty/Institute: Al-Kindy College of Medicine

Scientific Department: Department of Microbiology


Academic or Professional Program Name: Microbiology

Final Certificate Name: Bachelor of medicine, Bachelor of surgery

Academic System: Semester

Description Preparation Date: 2.4.2024

File Completion Date: 2.4.2024


Signature:

Head of Department Name:

Ass. Professor Haider

Hashim Abdulrazak

Date:


Signature:

Scientific Associate Name:

Professor Taghreed Alhaydari

Date:

The file is checked by: *Dr. Aseel Sameer Mohamed*

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 23/4/2024

Signature: 


Approval of the Dean

The Dean
Prof. Dr.
Mohammed Shihab Al-Edammi

1. Program Vision

To fulfill the goal of graduating excellent, safe, competent, and professional doctors at both the undergraduate and postgraduate levels who are dependable in providing health care services and leadership

2. Program Mission

To provide high quality training in microbiology and medical genetics to the medical students; this is done by providing the medical students within formation that enable them to:

- Identify common infectious agents and the diseases that they cause.
- Evaluate methods used to identify infectious agents in the clinical microbiology lab.
- Recall microbial physiology including metabolism, regulation and replication.
- Explain general and specific mechanisms by which an infectious agent causes disease.
- Recognize and diagnose common infectious diseases from the clinical presentation and associated microbiology.
- Understand of the structure of the human genome and function and the common genetic diseases.

3. Program Objectives

The objectives of a microbiology program are typically designed to achieve specific goals related to education, research, and professional development within the field of microbiology.

1. Educational Objectives:

- Provide students with a comprehensive understanding of the fundamental concepts, principles, and theories of microbiology.
- Equip students with practical skills and techniques in laboratory methods, data

analysis, and scientific inquiry relevant to microbiological research.

- Foster critical thinking, problem-solving, and communication skills necessary for success in academic, research, and professional settings.

2. Research Objectives:

- Engage faculty and students in cutting-edge research initiatives that address pressing questions in microbiology, including microbial ecology, pathogenesis, biotechnology, and antimicrobial resistance.

- Provide research opportunities for undergraduate and graduate students to participate in hands-on laboratory experiences, independent projects, and collaborative research endeavors.

- Facilitate interdisciplinary collaborations and partnerships with other academic departments, research institutions, and industry partners to advance microbiological science and innovation.

3. Professional Development Objectives:

- Prepare students for careers in academia, healthcare, government, and other sectors by offering mentorship, networking opportunities, and career development resources.

- Foster ethical leadership, integrity, and professionalism among students through education, training, and experiential learning experiences.

- Promote lifelong learning and professional growth by encouraging students to pursue advanced degrees, certifications, and continuing education opportunities in microbiology and related fields.

4. Community Engagement Objectives:

- Serve as a resource for the local community, healthcare professionals,

policymakers, by providing expertise, training, and outreach activities related to microbiology and public health.

- Promote awareness and understanding of microbiological concepts, issues, and research findings through public lectures, educational programs, and community events.

- Contribute to global health initiatives, environmental sustainability efforts, and disease prevention strategies through collaborative research, advocacy, and knowledge dissemination.

4. Program Accreditation

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

Yes. The national council for Accreditation of Medical Colleges NCAMC

5. Other external influences

Is there a sponsor for the program? Yes

Ministry of Higher Education and Scientific Research.

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	12	15.3		Basic
College Requirements	12	15.3		Basic
Department Requirements	12	15.3		Basic
Summer Training	None			
Other	-			

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

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
first	HCG 103	Human cell and gene	30	30
first	MBI 104	Microbiology and immunology	30	30
second	HLS 204	Hemopoietic & Lymphatic System	14	10
second	MSK 205	Musculoskeletal System	9	0
second	CVS 210	Cardiovascular System	4	2
second	RSP 211	Respiratory System	14	8
Second	ENS 302	Endocrine System	4	2
Third	GIT 212	GIT, Liver, Biliary and Pancreas	20	8
Third	NCS 301	Neurosciences	12	6
Third	INS 303	Integumentary System	7	0
Third	REN 307	Renal System	7	4
Third	REP 308	Reproductive System	11	0

8. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	Provide students with fundamental concepts of microbiology and proficiency in laboratory techniques commonly used in microbiology research.
Skills	

Learning Outcomes 2	Practical and clinical laboratory skills by dealing with patient samples.
Learning Outcomes 3	Analytical and mathematical skills
Ethics	
Learning Outcomes 4	Ability to identify and analyze ethical issue in microbiology research including considerations of integrity, honesty, and respect for human.
Learning Outcomes 5	Apply ethical guidelines provided by Iraqi organizations and committee to microbiological research, experiments and data interpretations.

9. Teaching and Learning Strategies
Practical lab sessions Tutorials Discussion Small group teaching

10. Evaluation methods
Implemented at all stages of the program in general. 1- Written examination 2- Short quizzes 3- Assignment. 4- Formative assessment 5- OSPE.

1.1. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecturer
Professor				1	
Assistant professor				3	
Lecturer				4	

Professional Development

Mentoring new faculty members

- 1- Establish clear expectation
- 2- Provide institutional orientation
- 3- Offer academic support
- 4- Facilitate research collaboration.
- 5- Promote professional development.
- 6- Offer emotional support.
- 7- Encourage networking and collaboration.
- 8- Provide ongoing feedback.
- 9- Promote inclusivity and diversity.

Professional development of faculty members

- 1- Needs assessment
- 2- Individual development plan.
- 3- Workshops and seminars.
- 4- Mentorship programs.
- 5- Peer observations and feedback.
- 6- Research support services.
- 7- Professional networking.

8- Leadership development programs.

9- Recognition and awards.

12. Acceptance Criterion

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

Central admission.

13. The most important sources of information about the program

1- Academic journals.

2- Textbooks.

3- Professional organizations.

4- Online database.

5- Government agencies.

6- Laboratory manuals.

7- Online courses.

8- Research institutes and universities.

14. Program Development Plan

1- Needs assessment.

2- Curriculum design.

3- Faculty recruitment and development.

4- Student support services.

5- Facilities and resources.

6- Partnerships and collaborations.

7- Assessment and evaluation.

Program Skills Outline																			
		Required program Learning outcomes																	
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics							
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4				
first	HCG 103	Human cell and gene	Basic	✓	✓	✓	✓	✓	✓	✓			✓						
first	MBI 104	Microbiology and immunology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
second	HLS 204	Hemopoietic & Lymphatic System	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
second	MSK 205	Musculoskeletal System	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

second	CVS 210	Cardiovascular System	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
second	RSP 211	Respiratory System	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Second	ENS 302	Endocrine System	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Third	GIT 212	GIT, Liver, Biliary and Pancreas	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Third	NCS 301	Neurosciences	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Third	INS 303	Integumentary System	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Third	REN 307	Renal System	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Third	REP 308	Reproductive System	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

1. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Medical microbiology by Jawetz, Meln and Adelbergs
Main references (sources)	1- Immunology by kuby 2- Review of Medical microbiology and Immunology by Warren Levinson
Recommended books and references (scientific journals, reports...)	American Journal of Microbiology
Electronic References, Websites	- http://www.cdc.gov . http://www.cdc.gov .dpdx .