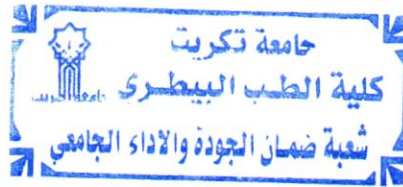


Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department



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: Tikrit University

Faculty/Institute: veterinary medicine

Scientific Department: Microbiology.....

Academic or Professional Program : Master

Final Certificate Named: MSc degree in Microbiology.....

Academic System: Courses and thesis.....

Description Preparation Date: 01/ 02/2023

File Completion Date:10 / 04 / 2024.

Signature:

Head of Department Name:

Prof. Ass. Dr. Sanna Ahmed Sauod

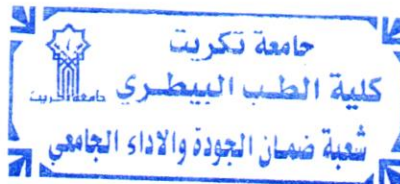
Date:10/06//2024

Signature:

Scientific Associate Name:

Prof. Ass. Dkheel Hussain

Date:10/06//2024



The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 10/6-2024

Signature:

م.م سيف خليل ابراهيم

Approval of the Dean

1. Program Vision

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

2. Program Mission

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

3. Program Objectives

General statements describing what the program or institution intends to achieve.

4. Program Accreditation

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

5. Other external influences

Is there a sponsor for the program?

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	45	3		Basic course
College Requirements	yes			

Department Requirements	Yes			
Summer Training	No			
Other				

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

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023-2024 (1 st)		Pathogenic bacteria	theoretical	
Post graduate				

8. Expected learning outcomes of the program
Knowledge
<p>1- Cognitive objectives.</p> <p>2- Enabling students with good advanced knowledge of bacteriology and pathogenic bacteria.</p> <p>3- Enabling students to conduct advanced scientific research and expand scientific research work in the field of pathogenic bacteria and microbiology in general.</p> <p>4- Enabling postgraduate students to develop their skills by attending seminars, courses and seminars related to the Microbiology branch.</p>
Skills
<p>1- The student will acquire skills in how to deal with laboratory equipment and materials related to the microbiology branch for the purpose of conducting scientific experiments related to microbiology research.</p> <p>2- The student will acquire skills in how to culture bacteria and grow pathogenic bacteria.</p>

3- The student will acquire the appropriate skills to use Vitek devices and the equipment of the microbiology laboratory.

4- The student will acquire the skills to conduct biochemical tests for diagnosing bacteria.

Ethics: Developing students' abilities to share modern ideas related to the microbiology branch.

9. Teaching and Learning Strategies

- 1- Theoretical lectures.
- 2- Scientific seminars and courses
- 3- Seminars that students are assigned to present and discuss with them.
- 4- Scientific discussions during scheduled scientific lectures, asking questions, and brainstorming for graduate students.

10. Evaluation methods

- 1- Daily, monthly and final exams.
- 2- Reports.
- 3- Seminars

11. Faculty

Faculty Members

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

Prof.Dr.	Veterinary medicine and surgery	Bacterial diagnostic immunology			staff	
Prof .ass.Dr	Biology	Microbiology			staff	

Professional Development

Mentoring new faculty members

Attending scientific seminars and courses, as well as keeping up with seminars and courses held electronically at international universities

Professional development of faculty members

Explaining the mechanism for arranging and sequencing lectures, as well as the assessment and evaluation methods used for graduate students

12. Acceptance Criterion

Competitive examination and the ministry's plan

13. The most important sources of information about the program

1-Textbook of Microbiology and Immunology .2nd edition.

2-LANGE medical book Jawetz, Melnick, & Adelberg's Medical Microbiology Twenty-Seventh Edition

14. Program Development Plan

Updating the curriculum by updating lectures and modern scientific sources

Program Skills Outline

Year/Level	Course Code	Course Name	Basic or optional	Required program Learning outcomes																						
				Knowledge				Skills				Ethics														
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4											
2024-2023 1 st		Pathogenic bacteria	Basic	√							√															

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

Course Description Form

1. Course Name:

Pathogenic bacteria

2. Course Code:

MIC 134, MIC 234

3. Semester / Year:

Second semester

4. Description Preparation Date:

01/02/2024

5. Available Attendance Forms:

My presence

6. Number of Credit Hours (Total) / Number of Units (Total)

45 / 3

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

Name: prof. dr. Bashar Sadeg Nomi

Email: vetbashr73@tu.edu.iq.

Name: Sanaa .S.Ahmed

Email: sanaa.s.ahmed@tu.edu.iq

8. Course Objectives

1-Cognitive objectives.

2- Enabling students with good advanced knowledge of bacteriology and pathogenic bacteria.

3- Enabling students to conduct advanced scientific research and expand scientific research work in the field of pathogenic bacteria and microbiology in general.

4- Enabling postgraduate students to develop their skills by attending seminars, courses and seminars related to the Microbiology branch.

9. Teaching and Learning Strategies

1- Educational strategy, collaborative concept planning.

2- Brainstorming education strategy.

3- Education Strategy Notes Series

10. Course Structure

16 - Course level: first year
 Course Name: Animal management / 2 hours
 Semester: first and Second

Evaluation method	Teaching method	Name of unit/course or subject	Required learning outcomes	Hours	Week
Questions and discussion	Lecture explanation	1-Staphylococcus	1-Introduction 2-Staphylococcus S.aureious . 3-Coagulase –Negative staphylococci.	Theoretical 3	1
Questions and discussion	Lecture explanation	2-2-Streptococcus and Enterococcus .	1-Streptococcus and Enterococcus 2-Streptococcus. 3-S.pyogenes. 4-Streptococcus agalactiae 5-Other Hemolytic 6-Streptococci 6-Viridans Streptococci Enterococci	Theoretical 3	2
Questions and discussion	Lecture explanation	3-Pneumococcus .	1-Introduction 2-Streptococcus. 3-pneumoniae.	Theoretical 3	3
Questions and discussion	Lecture explanation	4- Neisseria	1- Introduction 2-Neisseria gonorrhoeae 3-Neisseria meningitidis 4-Other Neisseria Species	Theoretical 3	4
Questions and discussion	Lecture explanation	5-corynebacterium	5Introduction 1-Corynebacterium diphtheriae 2-Other Pathogenic Corynebacterium Species 3-Other Coryneform Genera	Theoretical 3	5
Questions and discussion	Lecture explanation	6- Bacillus	1- Introduction anthracis 2-Anthracid Bacilli. Bacillus	Theoretical 3	6
Questions and discussion	Lecture explanation	7- Clostridium	1-Introduction 2-Clostridium 3-Clostridium perfringens 4-Clostridium tetani 5-Clostridium botulinum 6-Clostridium difficile	Theoretical 3	7
Questions and discussion	Lecture explanation	8- Coliforms	1- Introduction 2-Escherichia coli 3-Edwardsiella 4-Citrobacter 5-Klebsiella 6-Enterobacter 7-Hafnia 8-Serratia 9-Proteus 10-Morganella 11-Providencia 12-Erwinia	Theoretical 3	8

Questions and discussion	Lecture explanation	9- Salmonella	1- Introduction 2-Salmonella 3-Gastroenteritis 4-Salmonella Bacteremia	Theoretical 3	9
Questions and discussion	Lecture explanation	10- Shigella.	1-Introduction 2-Shigell	Theoretical 3	10
Questions and discussion	Lecture explanation	11- Yersinia Introduction	1- Yersinia pestis 2-Yersinia enterocolitica 3-Yersinia pseudotuberculosis	Theoretical 3	11
Questions and discussion	Lecture explanation	12- Pseudomonas, Burkholderia, and Moraxella	1- Introduction 2-Pseudomonas 3-Pseudomonas aeruginosa 4-Other Pseudomonas Species 5-Burkholderia 6-Moraxella	Theoretical 3	12
Questions and discussion	Lecture explanation	13-Actinomycetes	1-Introduction 2-Actinomyces 3-Nocardia 4-Rhodococcus 5-Gordonia and Tsukamurella 6-Actinomyces 7-Tropheryma 8-Dermatophilus Oerskovia	Theoretical 3	13
Questions and discussion	Lecture explanation	14-Brucella	1-Brucella 2-Introduction To Brucella	Theoretical 3	14
Questions and discussion	Lecture explanation	15-Miscellaneous Bacteria	1-Miscellaneous Bacteria 2-Introduction 3-Listeria monocytogene	Theoretical 3	15

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

12. Learning and Teaching Resources

- 1-Textbook of Microbiology and Immunology .2nd edition.
- 2-LANGE medical book Jawetz, Melnick, & Adelberg's Medical Microbiology Twenty-Seventh Edition.