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 - 2025

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

Academic Program Description Form

University Name: Tikrit .....

Faculty/Institute: veterinary medicine .....

Scientific Department: public health .....

Academic or Professional Program Name: Bachelor of vet. Medicine .....

Final Certificate Name: Bachelor of veterinary medicine and surgery .....

Academic System: quarterly .....

Description Preparation Date: 15\10 / 2024.

File Completion Date: 20 /1 / 2025.

Signature:

Head of Department Name:

Prof.Dr.Buthaina Abdulhameed

Date: 10/2/2025

Signature:

Scientific Associate Name:

Ass. Prof..Dakeel Hussein Hadree

Date: 10 /2/2025

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

جامعة تكريت / كلية الطب البيطري
أ.د. بشار صادق نوري

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**	
2024-2025 (1st)		**Therapeutics**	**theoretical**	
Post graduate				

8. Expected learning outcomes of the program

Knowledge

1- Cognitive objectives.
2- Enabling students with good advanced knowledge of therapeutic science.
3- Enabling students to conduct advanced scientific research and expand scientific research work in the field of therapeutics as well as in pharmacology.
4- Enabling graduate students to develop their skills by attending seminars related to pharmacology.

Skills

1- Providing the student with skills in how to deal with various types of laboratory animals for the purpose of conducting scientific experiments.

2- Providing the student with skills in how to use laboratory equipment.

3- Providing the student with the appropriate skills to administer medications and other materials to laboratory animals.

4- Providing the student with skills using tissue culture for the purpose of experimenting with drugs.

Ethics

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	Veterinary pharmacology			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-Basic and Clinical pharmacology , Twelfth Edition. Bertram G. Katzung, MD, PhD Katzung12ed

2-Rang & Dale's Pharmacology 10 th Edition 2023.

14. Program Development Plan

Updating the curriculum by updating lectures and modern scientific sources

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
٢024-2925 1st		Therapeutics	Basic										⊗		

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

Course Description Form

1. Course Name:
Therapeutics
2. Course Code:
3. Semester / Year:
Second semester
4. Description Preparation Date:
2025
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. Siham Agme Wadee. Email: sihamwadee@tu.edu.iq
8. Course Objectives
1- Cognitive objectives. 2- Enabling students to know animal management while making optimal use of the capabilities available to house and c for animals. 3- Enabling students to know and understand the science of management and methods of raising animals.
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	Veel
Questions and discussion	Lecture explanation	1-Antimicrobial therapy	1-Introduction 2-Principles of antibacterial therapy	Theoretical 3	
Questions and discussion	Lecture explanation	2-Classification of antibacteria	1 Antibiotic classes 2-Classification according to mechanism action Classification according to the spectrum of antibiotic .	Theoretical 3	
Questions and discussion	Lecture explanation	3-Mechanism of resistance	1- Resistance of microorganisms to antibacterial drugs	Theoretical 3	
Questions and discussion	Lecture explanation	4-Inhibition of cell wall synthesis	Drugs that inhibit cell wall synthesis:- Penicillins ,Cepalosporins and Vancomycine. Paharmacodynamic,Pharmacokinetic and adverse effects. B- Monobactams β-Lactamase inhibitor Vancomycin Daptomycin Telavancin Fosfomycin Polymyxins	Theoretical 3	
Questions and discussion	Lecture explanation	5-Inhibition of Protein synthesis	Aminoglycosides Macrolides and Ketolides. Chlormphenicol. Clindamycin Fidaxomycin Quinupristin/dalfopristin Linezolid and Tetracyclines	Theoretical 3	
Questions and discussion	Lecture explanation	6-Inhibition of DNA synthesis	Fluroqinolones	Theoretical 3	
Questions and discussion	Lecture explanation	7-Folate antagonists	Sulfonamides Cotrimoxazole	Theoretical 3	
Questions and discussion	Lecture explanation	8-Urinary tract antiseptic	Urinary tract Antiseptics Antimicrobials UTIs Methenamine Nitrofurantoin	Theoretical 3	
Questions and discussion	Lecture explanation	9-Combination of antibacterial	Combination Antibiotics	Theoretical 3	
Questions and discussion	Lecture explanation	10-Failure treatment with antibacteria	Reasons of failure of treatment with antibacterial	Theoretical 3	0
Questions and discussion	Lecture explanation	11-Chemotherapy of protozoal infection	Antiprotozoal drugs and anticoccidal drugs	Theoretical 3	1

		Anticoccidal drugs			
Questions and discussion	Lecture explanation	Babesiocidal drugs trypanocidal drugs	Antibabesial drugs and Antitrypanosoma drugs	Theoretical 3	2
Questions and discussion	Lecture explanation	13-Antithelmintic drugs Chemotherapy of worm infections Drugs acting on fluks Fascioliasis therapy Drugs acting of external parasite	Chemotherapy of worm infections All antithemintic drugs Anti fasciolosis drugs and agents Antiexternal parasites drugs	Theoretical 3	3
Questions and discussion	Lecture explanation	14-Antifungal drugs Anti viral drugs	-Drugs for S.C and systemic Mycosis -Drugs for Cutaeous Mycosis. I-Treatment of Respiratory virus infections II-Treatment of hepatic viral infections III. Treatment of herpes virus infections . -For Herpes virus and Cytomegalovirus infections IV-treatment of HIV infection.	Theoretical 3	4
Questions and discussion	Lecture explanation	15-Chemotherapy drugs (anticancer(	-Problems associated with chemotherapy -Common adverse effects. -Minimizing adverse effects. -Antimetabolites -Alkylating agents. -Microtubule inhibitors- -Steroide hormones and their antagonists - Platinum coordination complexes Immunosuppressants Selective of inhibitors cytokine production and function . Immunosuppressive Antimetabolites Antibodies Adrenocorticoids	Theoretical 3	5

11. Course Evaluation

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

12. Learning and Teaching Resources

1-Basic and Clinical pharmacology , Twelfth Edition. Bertram G. Katzung, MD, PhD Katzung12ed
2-Rang & Dale's Pharmacology 10 th Edition 2023.