

مستند

**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: 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: 20 / 2 / 2024.

File Completion Date: 20 / 2 / 2024.

Signature: 

Head of Department Name:

Prof. Dr. Buthaina Abdulhameed

Date: 10/6/2024

Signature: 

Scientific Associate Name:

Prof. Ass. Dkheel Hussain

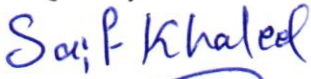
Date: 10/6/2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:



Signature:



10-6-2024



  
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 <sup>st</sup> )		Therapeutics	theoretical
Post graduate			

8. Expected learning outcomes of the program
<b>Knowledge</b>
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.
<b>Skills</b>
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.
<b>Ethics</b>

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





## Course Description Form

1. Course Name:	
Therapeutics	
2. Course Code:	
3. Semester / Year:	
Second semester	
4. Description Preparation Date:	
10 / 6 / 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. 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 care 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	Week
Questions and	Lecture explanation	1-Antimicrobial therapy	1-Introduction 2-Principles of antibacterial therapy	Theoretical 3	1

discussion					
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	2
Questions and discussion	Lecture explanation	3-Mechanism of resistance	1- Resistance of microorganisms to antibacterial drugs	Theoretical 3	3
Questions and discussion	Lecture explanation	4-Inhibition of cell wall synthesis	Drugs that inhibit cell wall synthesis:- Penicillins ,Cepalosporins and Vancomycine. Pharmacodynamic,Pharmacokinetic and adverse effects. B- Monobactams $\beta$ -Lactamase inhibitor Vancomycin Daptomycin Telavancin Fosfomycin Poly myxins	Theoretical 3	4
Questions and discussion	Lecture explanation	5-Inhibition of Protein synthesis	Aminoglycosides Macrolides and Ketolides. Chlorphenicol. Clindamycin Fidaxomycin Quinupristin/dalfopristin Linezolid and Tetracyclines	Theoretical 3	5
Questions and discussion	Lecture explanation	6-Inhibition of DNA synthesis	Fluroquinolones	Theoretical 3	6
Questions	Lecture	7-Folate antagonists	Sulfonamides Cotrimoxazole	Theoretical 3	7

and discussion	explanation				
Questions and discussion	Lecture explanation	8-Urinary tract antiseptic	Urinary tract Antiseptics Antimicrobials UTIs Methenamine Nitrofurantoin	Theoretical 3	8
Questions and discussion	Lecture explanation	9-Combination antibacterial	Combination Antibiotics	Theoretical 3	9
Questions and discussion	Lecture explanation	10-Failure treatment with antibacteria	Reasons of failure of treatment with antibacterial	Theoretical 3	10
Questions and discussion	Lecture explanation	11-Chemotherapy of protozoal infection Anticoccidial drugs	Antiprotozoal drugs and anticoccidial drugs	Theoretical 3	11
Questions and discussion	Lecture explanation	Babesiocidal drugs trypanocidal drugs	Antibabesial drugs and Antitrypanosoma drugs	Theoretical 3	12
Questions and discussion	Lecture explanation	13-Antihelminthic drugs Chemotherapy of worm infections Drugs acting on flukes Fascioliasis therapy Drugs acting of external parasite	Chemotherapy of worm infections All anthelmintic drugs Anti fasciolosis drugs and agents Antitexternal parasites drugs	Theoretical 3	13
Questions and discussion	Lecture explanation	14-Antifungal drugs Anti viral drugs	-Drugs for S.C and systemic Mycosis -Drugs for Cutaneous Mycosis.	Theoretical 3	14

<p>Questions and discussion</p>		<p>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.          -Problems associated with chemotherapy          -Common adverse effects.          -Minimizing adverse effects.          -Antimetabolites          -Alkylating agents. -Microtubule inhibitors-          -Steroid hormones and their antagonists          - Platinum coordination complexes          Immunosuppressants          Selective of inhibitors cytokine production and function .          Immunosuppressive Antimetabolites          Antibodies          Adrenocorticoids</p>	<p>Theoretical 3</p>	<p>15</p>
	<p>15-Chemotherapy drugs (anticancer)</p>			

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

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