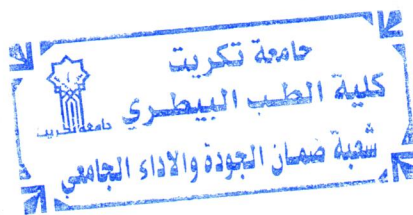


الهيئة العامة

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



## **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 university .....

Faculty/Institute: veterinary medicine .....

Scientific Department: .Physiology ,Pharmacology and Biochemistry .

Academic or Professional Program Name: ... Bachelor's degree in veterinary medicine and surgery

Final Certificate Name: . Bachelor's degree in veterinary medicine and surgery

Academic System: ... Quarterly

Description Preparation Date: 5/10/2025

File Completion Date: 6/11/2025

*Buthaina*

Signature:

Head of Department Name:

Prof. Buthaina Abdel Hamid

Date:

PROF. DR.

BUTHAINA ABDULHAMEED ABDULLAH

Signature:

Scientific Associate Name:

Ass.Prof. Montaser

Mohammad Helal.

Date:

Asst. Prof. Dr.

Montaser M. Helal

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department: Asist. Prof. Dr. Ahmed Abdullah Sultan

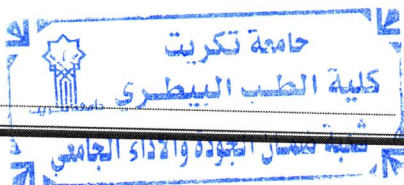
Date: 6/11/2025

Signature:



Tikrit University  
College of Veterinary Medicine  
Prof. Dr. Bashar Sadiq Noomi  
Dean of the College

Approval of the Dean



### **1. Program Vision**

The College of Veterinary Medicine seeks to be one of the leading higher education institutions at Tikrit University in the field of modern higher education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving the community in their fields of expertise.

### **2. Program Mission**

Working to prepare and graduate leading scientific and leadership competencies in the field of veterinary medicine and in the field of scientific research to serve society.

### **3. Program Objectives**

- 1- Increasing the student's knowledge and understanding in the field of veterinary medicine and preparing him scientifically to be familiar with the science of drugs, their names and groups, how these drugs work and their positive and negative effects, in addition to drug interactions.
- 2- In order to be able to know the changes that occur in medications from different tissues of the body, including the processes of absorption, distribution, metabolism, and excretion.
- 3- The student will be familiar with the importance of pharmacology, its effects and clinical applications.
- 4- Increasing the student's cognitive awareness regarding methods of applying practical experiments on drug substances, methods of drug absorption, and methods of using and dealing with laboratory animals.
- 5- Working to meet the community's need in this field by developing various plans that keep pace with scientific and practical developments in the field of veterinary medicine.

6- Increasing the student's skills in the field of employment and self-development enables him to compete with others in the labor market.

#### 4. Program Accreditation

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

Nothing

#### 5. Other external influences

Is there a sponsor for the program?

Nothing

#### 6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	90	90		Basic course
College Requirements	yes			
Department Requirements	yes			
Summer Training	Nothing			
Other				

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

#### 7. Program Description

Year/Level	Course Code	Course Name	Credit Hours
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2023-2024 Third stage		Pharmacology	theoretical	practical

### 8. Expected learning outcomes of the program

#### Knowledge

Learning Outcomes 1	Learning Outcomes Statement 1 Enabling students to obtain knowledge and understanding of pharmacology, how medications work, what they are used for, their side effects, as well as drug interactions.
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#### Skills

Learning Outcomes 2	Learning Outcomes Statement 2 Expanding students' skills in the field of pharmacology from a theoretical and practical perspective and benefiting from them in the future in a clinical manner, knowing the effect of drugs on the body's systems, and knowing how the body gets rid of these drugs.
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Learning Outcomes 3	Learning Outcomes Statement 3-Provide the student with skills in how to deal with laboratory animals, methods of drawing blood, and administering medications.
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#### Ethics

Learning Outcomes 4	Learning Outcomes Statement 4 Developing students' abilities to participate in the practical aspect of the laboratory
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Learning Outcomes 5	Learning Outcomes Statement 5 Testing drugs on laboratory animals and observing responses to these drugs
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### 9. Teaching and Learning Strategies

Teaching and learning strategies and methods adopted in the implementation of the program in general.

- 1- Analogical and practical lectures in laboratories
- 2- Discussions and involving students in them through questions and answers
- 3- Holding discussion circles and seminars in the college
- 4- Holding training courses in the field of pharmaceutical specialization

### 10. Evaluation methods

Implemented at all stages of the program in general.

Weekly, monthly and daily exams and the end of the first and second courses.

### 11. Faculty

#### Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	Veterinary medicine and surgery	Pharmacology			staff	

### Professional Development

#### Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

#### Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

### 12. Acceptance Criterion

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

admission or others)

### 13. The most important sources of information about the program

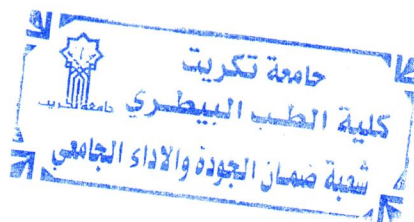
State briefly the sources of information about the program.

- 1-Walter H.Hsu.Handbook of veterinary pharmacology 1 st edition .
- 2-Jim E.Riviere,Mark g. Veterinary Pharmacology and Therapeutics,9th edition .
- 3-Charles ,W.E.(2010).Laborotory guide in pharmacology .Manuals of pharmacology.

### 14. Program Development Plan

Introducing new vocabulary to be added to the pharmacology course, such as adding Phytotherapy and teaching students how to make plant extracts, how they work, their components, and benefiting from them therapeutically, in addition to chemical medicines.

- Identifying some of the medications that, when given, work as a prophylaxis to get rid of some of the harmful effects of some of the medications, especially chemotherapy medications.



**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
		Pharmacology	Basic												

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

## Course Description Form

<b>1. Course Name:</b>	
Pharmacology	
<b>2. Course Code:</b>	
<b>3. Semester / Year:</b>	
Semester	
<b>4. Description Preparation Date:</b>	
5/10/2025	
<b>5. Available Attendance Forms: Attendance</b>	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
90 hours /3 unit	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: 1-Siham Agmee Wadee.2-Buthaina Abdulhameed	
Email: <a href="mailto:sihamwadee@tu.edu.iq">sihamwadee@tu.edu.iq</a>	
Email: <a href="mailto:Buthinahameed@tu.edu.iq">Buthinahameed@tu.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>• 1- Teaching the student know the science of medicine in a theoretical way everything related medicines, including groups and names medicines, their method action, and their positive and harmful effects.</li> <li>• 2- Students learn laboratory skills in how deal with laboratory animals methods of giving medications, and draw</li> </ul>

blood to present  
laboratory examination.

### 9. Teaching and Learning Strategies

#### Strategy

- 1- Education strategy. Through theoretical and practical lectures
- 2- Education strategy discussions and making reports.
- 3- Education Strategy Notes Serie

### 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	Three	Pharmacodynamics	Introduction.- Principles of pharmacology.	Explaining scientific material through theoretical lectures	Weekly, monthly, daily, written and end-of-semester exams
Second	Three	Pharmacokinetics	- Drugs acting on Autonomic Nervous System		
3	3				
4	3	Drugs acting on Autonomic Nervous System	Neurotransmitter		
5	3		Parasympathetic Nervous System.		
6	3		Sympathetic Nervous System. Cholinergic drugs Anticholinergic drugs. Adrenergic agonists		
7	3	Drugs Acting on Central Nervous system	Pharmacology Of Central Nervous System		
8	3		Antagonists and anti-inflammatory drugs		
9	3				

10	3	Pharmacology			
11	3	Of Gastrointestinal Drugs	Drugs affecting on GIT function.		
12	3	Autocoids			
13	3	And	Autocoids and		
14	3	Anti-inflammatory Drugs	anti-inflammatory drugs		
15	3	Pharmacology Of Skin Drugs	Dermatopharma- cology		
Second Semester					
16	3				
17	3	Chemotherapy	Chemotherapy		
18	3	Of Microbial Diseases	Classification Of antibacterial Drugs		
19	3		Introduction		
20	3	Chemotherapy	Anthelmintic		
21	3	Of Parasitic Diseases	Antinematodes Anticestodes Anti-trematodes Antiprotozoal Anticoccidial		
22			Introduction		
23		Drugs acting	Inotropic drug		
24		On Cardiovascular System	Sympathomimetic Parasympatholytic Antidysrhythmic Agents Coagulants and Anticoagulant Fibrinolytic		
25			Introduction		
26		Renal Pharmacology	Diuretics Urinary Acidification		

27 28		Drugs acting On the Respiratory System	And alkalinization  Expectorants Mycolytics Bronchodilators Anti-inflammatory Agents		
29 30		Drugs acting On the  Reproductive System	Introduction Pituitary hormone Pancreas H Thyroid H Adrenal H		

### 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

1-The distribution is as follows: 40 marks for the monthly and daily exams for the first semester and 60 marks for the final exam for the first semester. The total mark 100M

2-40 marks for the monthly and daily exams for the first semester and 60 marks for the final exam for the second semester. The total mark 100M

### 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Walter H.Hsu. Handbook veterinary pharmacology 1 edition
Main references (sources)	Katzung's Basic & Clinical Pharmacology, 16th Edition
Recommended books and references (scientific)	British Journal of Pharmacology

journals, reports...)	.. <u>International Journal Pharmacology</u> <b>Indian Journal Pharmacology</b>
Electronic References, Websites	Electronic Veterinary Medicine Books Veterinary Pharmacy Suggested databases, books, and websites for veterinary pharmacy students.

