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

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Academic Program Description Form

University Name: Tikrit University

Faculty/Institute: Veterinary Medicine

Scientific Department: Pharmacology ,Physiology and Biochemistr

Academic or Professional Program Name: Pharmacology

Final Certificate Name: Bachelor of Veterinary Medicine and Surgery

Academic System: Semester

Description Preparation Date: 5/10/2024

Signature:

Head of Department Name:

Prof.Dr.Buthaina Abdulahameed Abdulla

Date: 6/10/2024

Signature:

Scientific Associate Name:

Proph. Dakheel Hussein Hedree

Date: 6/10/2024

The file is checked by:

Assist. Prof . Dr Ahmed Abdullah Sultan

Quality Assurance And University Performance Manager

Date : 6 / 10 / 2024

Signature:

جامعة تكريت
كلية الطب البيطري
شعبة ضمان الجودة والاداء الجامعي

Approval of the Dean

Prof. Dr. Bashar Sadeq Numi

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?

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	yes			

Requirements				
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	
2024-2025 Third stage	VEM3111-VEM3122	**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.
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.
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.
Ethics	
Learning Outcomes 4	Learning Outcomes Statement 4Developing students' abilities to participate in the practical aspect of the laboratory
Learning Outcomes 5	Learning Outcomes Statement 5 Testing drugs on laboratory animals and observing responses to these drugs

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.

الأسبوع	الساعات	مخرجات التعلم المطلوبة	اسم الوحدة او الموضوع	طريقة التعلم	طريقة التقييم
1	3 ساعة	Pharmacodynamic	Metrology **2**	شرح المادة العلمية من خلال المحاضرات النظرية	الامتحانات الأسبوعية والشهرية واليومية والتحريرية وامتحان نهاية الفصل
2	3 ساعة	Pharmacokinetics	**2.** Nature and sources of drugs **4**		
3	3 ساعة	Neurotransmitters	**3.** Pharmaceutical preparations and drug forms **2**		
4	3 ساعة	asympathetic Nervous System.			
5	3 ساعة		**4.** Routes of drug administration **2**		
6	3 ساعة	npathetic Nervous System. Cholinergic drugs. Anticholernergic drugs .	**5.** Variations in drug response (Species and individual) **4**		
		energic agonist and Antagonist.	**6.** Microsomal enzymes activity induction and drug response **2**		
7	3 ساعة	gs Acting on Central Nervous system	**7.** Excretion of drugs **2**		
8	3 ساعة		**8.** Prescription writing **2**		
9	3 ساعة		**9.** Dispensing **4**		
10	3 ساعة	gs affecting on GIT function.	**10.** Action of drugs on the eyes **2**		
11	3 ساعة		**11.** Action of drugs on isolated guinea pigs ileum **2**		
12	3 ساعة	ocoids and anti-inflammatory drugs.	**12.** Drugs and effects on the rabbit intestine **2**		
13	3 ساعة		**13.** Drugs and effects on rabbit uterus **2**		
14	3 ساعة		**14.** Neuromuscular blocking (on the frog) **2**		
15	3 ساعة	Dermatopharmacology.	**15.** Calculation of drug dosage **2**		
عطلة الفصل الثاني		Introduction Chemotherapy Classification Of antibacterial drugs	**16.** Xylazine-ketamine anesthesia in rabbits **2**		
16	3 ساعة		**17.** Dose response relationships (ED50, LD50, TI) **2**		
17	3 ساعة		**18.** Anticonvulsants **2**		
18	3 ساعة	Introduction Anthelmintic Antinematodes Anticestodes Anti-trematodes Antiprotozoal Anticoccidial	**19.** Determination of blood cholinesterase activity **2**		
19	3 ساعة		**20.** Organophosphate poisoning in rats or mice **2**		
20	3 ساعة		**21.** Xylazine effects in sheep **2**		
21	3 ساعة		**22.** Diuretics **2**		
		Introduction	**23.** Aspirin toxicity (comparison with acetaminophen) **2**		
			24. Veterinary		

		pharmaceutical preparations **4** **25.** Neurobehavioral effects of drugs and toxicants **2** Effects of drugs on the perfused heart	Inotropic drug Sympathomimetic Parasympatholytic Antidysrhythmic Agents Goagulants and Anticoagulant Fibrinolyic Introduction Diuretics Urinary Acidification And alkalinzation Expectorants Mycolytics Bronchodilators Anti-inflammatory Agents Introduction Pituitary hormones Pancreas H Thyroid H Adrenal H	3 ساعة 3 ساعة 3 ساعة 3 ساعة 3 ساعة 3 ساعة 3 ساعة 3 ساعة 3 ساعة	22 23 24 25 26 27 28 29 30

Week	Hours	Unit or subject name	Learning method	Evaluation method
First Second 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	**1.** Metrology **2.** Nature and sources of drugs **3.** Pharmaceutical preparations and drug forms **4.** Routes of drug administration **5.** Variations in drug response (Species and individual) **6.**Microsomal enzymes activity induction and drug response **7.** Excretion of drugs **2** **8.** Prescription writing **9.** Dispensing **10.** Action of drugs on the eyes **11.** Action of drugs on isolated guinea pigs ileum **12.** Drugs and effects on the rabbit intestine **2** **13.** Drugs and effects on rabbit uterus **14.** Neuromuscu blocking (on the frog) **15.** Calculation of drug dosage **16.** Xylazine-ketamine anesthesia in rabbits **2** **17.** Dose response relationships (ED50, LD50, TI) Anticonvulsants **19.** Determination of blood cholinesterase activity **20.** Organophosphate poisoning in rats or mice **21.** Xylazine effects in sheep **22.** Diuretics **23.** Aspirin toxicity (comparison with acetaminophen) **24.**Veterinary pharmaceutical preparations **25.** Neurobehavioral effects of drugs and toxicants **26.** Effects of drugs on the perfused heart	Explaining scientific material through theoretical lectures	Weekly, monthly, daily, written and end -of- semester exams