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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 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: 15/10/2023

File Completion Date: 15/ 2/2024

Signature:

Head of Department Name:

Prof. Buthaina Abdel Hamid

Date: 3-3-2024



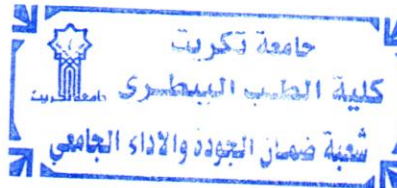
Signature:

Scientific Associate Name:

Ass.Prof. Dakhil Hussein

Hadri

Date:



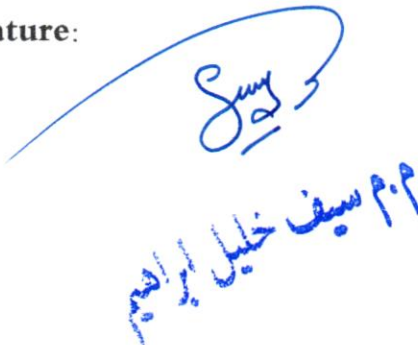
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Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 15-2-2024

Signature:



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	
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.
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 4 Developing 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.

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

1. Course Name:

Pharmacology

2. Course Code:

3. Semester / Year:

Semester

4. Description Preparation Date:

15/2/2024

5. Available Attendance Forms: Attendance

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

90 hours /3 unit

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

Name: 1-Siham Agmee Wadee.2-Buthaina Abdulhameed

[Email: sihamwadee@tu.edu.iq](mailto:sihamwadee@tu.edu.iq)

[Email: Buthinahameed@tu.edu.iq](mailto:Buthinahameed@tu.edu.iq)

8. Course Objectives

Course Objectives	<p>•1- Teaching the student to know the science of medicine in a theoretical way, everything related medicines, including the groups and names of medicines, their method of action, and their positive harmful effects.</p> <p>•2- Students learned laboratory skills in how to deal with laboratory animals, methods of giving medications, and drawing blood to present the laboratory examination</p>
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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 First Second 3	Three Three 3	Pharmacodynamic Pharmacokinetics	Introduction.- -Principlesof pharmacology. - Drugs acting Autonomic Nervous System	Explaining scientific material through theoretical lectures	Weekly, monthly daily, written and end -of- semester exams
4	3	Drugs acting	Neurotransmitter		
5	3	Autonomic	Parasympathetic		
6	3	Nervous System	Nervous System Sympathetic Nervous System Cholinergic drug Anticholinergic drugs . Adrenergic agonist a		
7	3	Drugs Acting on			
8	3	Central	Pharmacology		
9	3	Nervous system	Of Central Nervous System Antagonistto and ar inflammatory drugs		
10	3	Pharmacology			
11	3	Of Gastrointestinal Drugs	Drugs affecting on GIT function		
12	3	Autocoids			
13	3	And			
14	3	Anti-inflammatory Drugs Pharmacology	Autocoids and anti- inflammatory drugs		

15	3	Of Skin Drugs	Dermatopharmacology		
Second Semester					
16	3				
17	3	Chemotherapy			
18	3	Of Microbial Diseases	Chemotherapy Classification Of antibacterial Drugs		
19	3				
20	3	Chemotherapy			
21	3	Of Parasitic Diseases	Introduction Anthelmintic Antinematodes Anticestodes Anti-trematodes Antiprotozoal Anticoccidial		
22					
23		Drugs acting	Introduction		
24		On Cardiovascular System	Inotropic drug Sympathomimetic Parasympatholytic Antidysrhythmic Agents Goagulants and Anticoagulant Fibrinolytic		
25					
26		Renal Pharmacology	Introduction Diuretics Urinary Acidification And alkalinization		
27					
28		Drugs acting On the Respiratory System	Expectorants Mycolytics Bronchodilators Anti-inflammatory Agents		

29 30		Drugs acting On the Reproductive System	Introduction Pituitary hormones Pancreas H Thyroid H Adrenal H		
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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 st editio
Main references (sources)	Katzung's Basic & Clini Pharmacology, 16th Edition
Recommended books and references (scientific journals, reports...)	British Journal of Pharmacology .. International Journal Pharmacology Indian Journal of Pharmacology
Electronic References, Websites	Electronic Veterinary Medicine Boc Veterinary Pharmacy Suggested databases, books, a websites for veterinary pharma students.

