

**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 ٣/٢٩٠٦ on ٣/٥/٢٠٢٣ 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: 15\10 / 2024.

File Completion Date: 20 /1 / 2025.

Signature:

Head of Department Name:

Prof.Dr.Buthaina Abdulhameed

Date:

Signature:

Scientific Associate Name:

Ass. Prof..Dakeel Hussein Hadree

Date:

فروع الفسلجة والادوية والكيمياء الحياتية
كلية الطب البيطري

The file is checked by:

Ahmed Abdullah Sultan

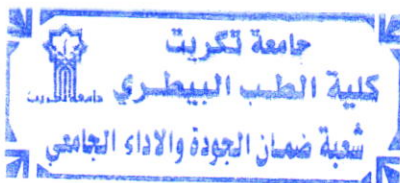
Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

6/10/2024

Signature:



١. 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 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 the fields of veterinary medicine education and its six branches and its preparation. Scientific preparation in order to be familiar with the functions of the organs of the animal body and be able to know the changes that occur in the various organs and tissues of the body.

٢. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in veterinary medicine and its sciences and to develop the balance of knowledge in the field of scientific research to serve society in this field by developing various plans that keep pace with scientific and practical developments in the field of veterinary medicine, as well as training and refining the minds of students scientifically and cognitively in the intellectual aspect. And the skills of veterinary medicine sciences, and the emphasis on social and cultural values in the ethics of the veterinary profession.

٣. Program Objectives

- ١- Embodying the vision, mission and goals of Tikrit University / College of Veterinary Medicine, and applying the best educational practices with a focus on ensuring quality and performance and enhancing them to increase the knowledge and understanding of the student in the field of veterinary medicine and prepare him scientifically so that he is familiar with the functions of the organs of the animal's body so that he is able to recognize the changes Which affect the various organs and tissues of the body when infection with various pathogens occurs, and study the effect of drugs and chemical reactions that occur inside and outside the body.
- ٢- ٢-Preparing specialized cadres capable of serving the community in the field of veterinary medicine by developing various plans that keep pace with scientific and practical developments in the field of veterinary medicine and preparing for the preparation of future specialties.
- ٣- ٣- Spreading the culture of scientific diversity in society, transferring scientific knowledge and veterinary skills, writing academic research, and creative scientific achievement through student- and teaching-focused activities in the field of veterinary medicine.
- ٤- ٤- The College of Veterinary Medicine seeks to conclude scientific and cultural cooperation agreements with corresponding colleges, and to hold training courses in the field of veterinary specialization to achieve best practices in the veterinary fields.
- ٥- ٥-Focusing on the scientific and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.

ε. Program Accreditation

National institutional accreditation standards for higher education institutions in Iraq.

ο. Other external influences

All veterinary medicine laboratories, the animal field, the library, the Internet, the slaughterhouse, the veterinary hospital, veterinary projects, magazines and research.

ς. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	Advance physiology	† hours (theoretical)		Basic course
College Requirements	yes			
Department Requirements	yes			
Summer Training	No			
Other				

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

ϗ. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
2023-2024 / master veterinary medicine pharmacology		Special Material	theoretical	

٨. Expected learning outcomes of the program

Knowledge	
Learning Outcomes ١	١- Enabling students to learn about organs function. Their relationship together, there effect on the body systems.
Skills	
Learning Outcomes ٢	Expanding the skill and giving the student skills in how to deal with animals and the effects physiology ٢- Giving the student the skill of physiological experiments and observing their effect.
Learning Outcomes ٣	١- Developing students' ability to understand how body systems work
Ethics	
Learning Outcomes ٤	Developing students' abilities to share experiments on veterinary animals.

٩. Teaching and Learning Strategies

- ١- - Enabling students to learn about organs function. Their relationship together, there effect on the body systems
- ٢- Explaining the function of each system and its effect on others ssysytems.
- ٣-

١٠. Evaluation methods

Theoretical exams (daily, monthly and annual).

١١. Faculty

Faculty Members

Academic Rank	Specialization	Special Requirements/Skills	Number of the teaching staff
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			(if applicable)		Staff	Lecturer
	General	Special				
Professor Doctor.	biology	Animal physiology			angel	

Professional Development

Mentoring new faculty members

The nature of the study program and the objectives of teaching graduate studies, special, the time period, the style of the subject, and the focus on personal, training, educational, research and technical skills.

Professional development of faculty members

Professional development is a strategic goal in light of technical and scientific developments, the diversity of knowledge sources, and the ease of dissemination and circulation because this Professional development for faculty members is a cornerstone for advancing the university and achieving leadership.

۱۲. Acceptance Criterion

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

۱۳. The most important sources of information about the program

State briefly the sources of information about the program.

١٤.

Program Development Plan

Using illustrative methods and presenting modern research in the field of medical physiology

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
2023-2024	VEP1104	Advance physiology	Basic	√				√		√					

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

Course Description Form

١. Course Name: advance physiology	
٢. Course Code:	
٣. Semester / simester	
٤. Description Preparation Date: ٢٠٢٤ / ٠٦ / ١١	
٥. Available Attendance Forms: In attendance only (theoretical)	
٦. Number of Credit Hours (Total) / Number of Units (Total)	
٢٠ hours annually. / ٢ units	
٧. Course administrator's name (mention all, if more than one name)	
Name: wasan sarhan Email: wasansarhan@tu.edu.iq	
٨. Course Objectives	
Course Objectives	١- Teaching the student to know the function of organs of the body systems.
٩. Teaching and Learning Strategies	
Strategy	١- The student's education the systematic reaction of the body system and how its work and the coordination between these systems

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Introduction :Definition of physiology and its relation to other sciences, the structure of cell membrane and cell organelles functions.	Explaining the scientific material through a PowerPoint presentation and solving problems on the blackboard.	Exams daily (coz) Monthly, written , mid-year and end-of-year exams
2	2		Cellular Basis of Animal Physiology, Animal cell ultra-structure, composition and functions Body fluid and its Dynamics. . Physio-chemical laws and membranes' phenomena. Transport of through biological membrane.)Review exam(.		
3	2		Excitable cells, Neurophysiology: structure and functions, Excitability and transmission of impulse in neuron and muscle. Junctional transmission. Neuro-transmitters and action potential. Synapse, (Review exam.)		
4	2		Muscle Physiology Muscle types and their intra-cellular contractile mechanisms. Electrophysiology of muscles. Neuromuscular junction. Excitation contraction coupling, its biochemical and ionic mechanisms. Molecular basis of muscle contraction (Review exam.)		
5	2		Nervous system: organization of the nervous system, CNS, PNS, Spinal cord, Reflex arch, Autonomic nervous system, (sympathetic, and		
6	2		Cardiovascular physiology: Cellular component of blood, Types and Functions, Hemoglobin Structure and Function, Electrical activity of the heart, (ECG...EKG), Capillaries and fluid exchange. Neural and Hormonal Control of Blood pressure, Blood Volume. and Hemostasis.		
7	2		Endocrinology: Endocrine system (Glands and their Functions) (Review exam		
8	2		Gastrointestinal Physiology and Metabolism: Organization of the Digestive System, Saliva and Salivary Glands, Liver and Pancreas, Digestive Enzymes, Ruminant physiology and fermentation		
9	2		Renal Physiology: Nephron structure and Function, Glomerular Filtration, Solute reabsorption, Water Balance, and Acid Base Balance.		
10	2		Respiratory System Physiology, Respiratory Volumes, Gas Exchange, Gas transport in the Blood, and Control of ventilation		

11. Course Evaluation

The distribution is as follows: 30 marks for monthly and daily exams for the first semester. 70 marks for final exams,

١٢. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Special Material
Main references (sources)	Klein, L.C. and Garvey, G.J., "Kinetics of the Sol-Gel Transition" Journal of Non-Crystalline Solids, Vol. 38, p.45 (2018).
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Head of the department

Prof. Dr. Buthaina Abdulhameed