

**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: Medicine, Surgery and Obs.

Academic or Professional Program Name: Clinical pathology

Final Certificate Name: Bachelor of Veterinary Medicine and Surgery

Academic System: Semester

Description Preparation Date: 5 / 10/2024

File Completion Date: 6 / 10/2024

Signature:

Head of Department Name:

Montaser Mohamad Helal

Date: 6/10/2024

Signature:

Scientific Associate Name:

Prof. Dakheel Hussein Hedree

Date: 6/10/2024

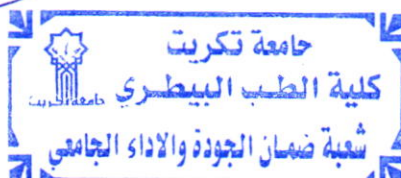
The file is checked by:

Assist. Prof. Dr Ahmed Abdullah Sultan

Quality Assurance And University Performance Manager

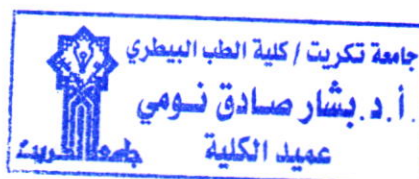
Date : 6 / 10 / 2024

Signature:



Approval of the Dean

Prof. Dr. Bashar Sadeq Numi





### **1. Program Vision**

The College of Veterinary Medicine / Tikrit University seeks to become an educational, research and extension institution and to be a pioneer and distinguished in order to advance the educational process and advance it regionally and internationally by adhering to Arab and international quality assurance standards and policies and university performance and achieving excellence and creativity in the field of the veterinary medicine profession by creating competencies. Veterinary medicine is able to keep pace with scientific development in the field of the profession, as this is done through developing and updating the curriculum so that graduates can perform their work efficiently in accordance with the need of the labor market and provide the best service to society.

### **2. Program Mission**

The basic outputs of the college are to prepare distinguished, competent graduates in the field of veterinary medicine by relying on the outputs of the College of Veterinary Medicine as basic building blocks for primary and postgraduate studies to serve the country's livestock. This is done by developing the curriculum in a way that is compatible with the spirit of the times and modernity. The college is also committed, through its mission, to honesty and quality in education at all levels. In addition to encouraging distinguished research projects for teachers in accordance with the needs of society and the labor market. The college also seeks to achieve excellence in preparing students with solid academic preparation that qualifies them to serve the community in the field of specialization. It also works to establish values and ideals among the college's members and students.

### **3. Program Objectives**

The College of Veterinary Medicine aims to raise the scientific level of undergraduate and graduate students and build their capabilities at the scientific and applied levels, and work to direct scientific research in the applied direction in the field of veterinary medicine and livestock and protect humans from common diseases by combating them and carrying out awareness and educational campaigns to prevent them, as well as graduating doctors. Veterinarians are able to perform their work in the field of community service with high efficiency through the scientific capabilities available at the college, including laboratories, the consulting office, and the veterinary teaching hospital, examining and treating various field animals, poultry, and fish ponds, supervising and treating them, and providing consultations in the field of care and nutrition of animals, poultry, and fish in order to obtain a food product. Safe from healthy animal origin and free of diseases, spreading environmental and cultural awareness of the importance of veterinary medicine in serving society and developing the environment, focusing on the educational and moral aspect of the student and spreading the spirit of dedication, tolerance and commitment.



**4. Program Accreditation**

Not found

**5. Other external influences**

Not found

**6. Program Structure**

Program Structure	Number of Courses	Study Unit	Percentage	Reviews*
Institution Requirements	90	90		Basic course
College Requirements	Yes			
Department Requirements	Yes			
Summer Training	Yes			
Other				

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

**7. Program Description**

Year/Level	Course Code	Course Name	Credit Hours	
2024-2025/4th stage	VEC4119 VEC4127	clinical pathologyI clinical pathologyII	2 theoretical	2 practical

**8. Expected learning outcomes of the program****Knowledge**

	<p>The student learns methods of examining animals and how to take samples for laboratory examination</p> <p>The student learns laboratory examination methods and how to diagnose medical conditions</p>
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	<p>The student must have sufficient scientific background in various animal diseases</p> <p>The student must have sufficient scientific background on different animal reproduction methods</p> <p>The student should have sufficient information to know the diseases common to humans and ways to prevent them</p> <p>The student must be familiar with the diseases and problems that the animal may be exposed to during pregnancy and birth.</p>
<b>Skills</b>	
	<p>Subject-specific skills</p> <p>1- Planning skills (preparing the student to be able to deal with the lesson and understand the topics that will be presented during the lecture by choosing effective teaching methods)</p> <p>2 - Executive skills (preparing the student to have the ability to prepare for the lesson by asking questions, varying the stimuli, and changing the tone of voice)</p> <p>3 – Evaluation skills (knowledge of questions and their types, preparation of tests, critical feedback)</p>
<b>Ethics</b>	
	Developing students' abilities to share ideas

## 9. Teaching and Learning Strategies

- 1- The lecture
- 2- Field visits and field and laboratory training
- 3- Training courses in the field of specialization
- 4- Holding seminars and discussions

## 10. Evaluation methods

- 1- Written tests
- 2- Oral and practical tests
- 3- Sudden and quick questions
- 4- Daily posts and reports

## 11. Faculty

### Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecturer



Assistant lecturer	Veterinary medicine and surgery	Clinical pathology			staff	
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#### **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**

Using modern educational methods

#### **12. Acceptance Criterion**

(Establishing regulations related to enrollment in the college or institute)

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

- The college and university website.
- Methodological books approved by the Ministry of Higher Education and Scientific Research.

#### **14. Program Development Plan**

- 1- Increasing field visits to government and private projects
- 2- Encouraging visits to the college library and the university's central library
- 3- Urging students to benefit from summer training in veterinary centers and the teaching hospital
- 4- Improving research projects and graduation projects.



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
2024-2025	VEC4199	Clinical pathology I	Basic		x		x	x					x		
	VEC4127														
					x		x	x					x		

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

1. Course Name:					
Clinical pathology					
2. Course Code:					
VEC4199+VEC4127					
3. Semester / Year:					
2023-2024first and second year					
4. Description Preparation Date:					
٢٠٢٤/202٥					
5. Available Attendance Forms:					
Attendance					
6. Number of Credit Hours (Total) / Number of Units (Total)					
٣0 hours. ٣ hours per week					
7. Course administrator's name (mention all, if more than one name)					
Name: assistant lecturer Manar Sabah Eesa Email: : manar_s@tu.edu.iq					
8. Course Objectives					
1- Graduating veterinarians capable of examining animals and diagnosing and treating diseases					
2- Graduating a veterinary cadre capable of supervising livestock fields and stations					
3- Graduating a cadre of veterinarians capable of working in artificial insemination centers					
4- Graduating a cadre of veterinarians who are able to diagnose problems that occur to animals during pregnancy and childbirth and how to treat them.					
5- The branch holds seminars to develop the capabilities of veterinarians working in animal husbandry sector and veterinary clinics in the field of artificial insemination methods of increasing fertilization.					
9. Teaching and Learning Strategies					
Strategy		1- Educational strategy, collaborative conceptual planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series			
10.Course structure					
week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	٣ hrs. theoretical	Introducing the student to the normal physiology of blood	Introduction and history of erythrocyte	Lecture and explanation	Daily exam questions and discussion
	٣ hrs. practical	The student's knowledge of the method of collection of samples	Sampling	Lecture and explanation	Daily exam questions and discussion
٢	٣ hrs. theoretical	Knowledge the causes of jaundice	Liver function test	Lecture and explanation	Daily exam questions and discussion



	۲ hrs. practical	Know how to examine the milk	Examination of milk	Lecture and explanation practice	Daily exam questions and discussion
۳	۲ hrs. theoretical	Understanding the mechanism of blood clotting	Blood clotting mechanism	Lecture and explanation	Daily exam questions and discussion
	۲ hrs. practical	Knowledge of method for detecting bacterial disease	Clinical microbiology	Lecture and explanation ppt	Daily exam questions and discussion
۴	۲ hrs. theoretical	Knowledge method of diagnosis parasitic disease	Clinical parasitology	Lecture and explanation	Daily exam questions and discussion
	۲ hrs. practical	Possibility of diagnosis immunological disease	Immunological disease	Lecture and explanation	Daily exam questions and discussion
۵	۲ hrs. theoretical	Knowing the methods diagnosis mastitis	Examination of milk	Lecture and explanation	Daily exam questions and discussion
	۲ hrs. practical	Knowing the method of examination of rumen fluid	Rumen fluid examination	Lecture and explanation	Daily exam questions and discussion
۶	۲ hrs. theoretical	Knowing the disease of nutritional deficiency	Nutritional disease	Lecture and explanation	Daily exam questions and discussion
	۲ hrs. practical	Understanding the method of detection of metabolic disease	Metabolic disease	Lecture and explanation and practice	Daily exam questions and discussion
۷	۲ hrs. theoretical	Knowing the disease of bone marrow	Examination of bone marrow	Lecture and explanation	Daily exam questions and discussion
	۲ hrs. practical	Knowing the method of detection toxic substance	Detection of toxic substance	Lecture and explanation and practice	Daily exam questions and discussion
۸	۲ hrs. theoretical	Knowing the method of feces examination	Feces examination	Lecture and explanation	Daily exam questions and discussion
	۲ hrs. practical	Knowing the serological examination	Serological examination	Lecture and explanation and practice	Daily exam questions and discussion
۹	۲ hrs. theoretical	Knowing the main causes of mastitis	Milk examination	Lecture and explanation	Daily exam questions and discussion
	۲ hrs. practical	Knowing the method of blood deamination	hematology	Lecture and explanation and practice	Daily exam questions and discussion
۱۰	۲ hrs. theoretical	Knowledge of method of diagnosis of blood parasite	Clinical parasitology	Lecture and explanation	Daily exam questions and discussion
	۲ hrs. practical	Knowing the most important methods of antimicrobial sensitivity test	antimicrobial sensitivity test	Lecture and explanation and practice	Daily exam questions and discussion



١١	٢ hrs. theoretical	Understanding the normal physiology of erythropoiesis	Erythrocyte	Lecture and explanation	Daily exam questions and discussion
	٢ hrs. practical	The possibility of performing kidney function test	Kidney function test	Lecture and explanation and practice	Daily exam questions and discussion
١٢	٢ hrs. theoretical	Understanding the serological test	Serological test	Lecture and explanation	Daily exam questions and discussion
	٢ hrs. practical	The possibility of performing biochemical test	Biochemical test	Lecture and explanation ppt	Daily exam questions and discussion
١٣	٢ hrs. theoretical	Understanding the mechanism of pregnancy toxemia	Metabolic disease	Lecture and explanation	Daily exam questions and discussion
	٢ hrs. practical	Knowing the causes of ruminal stasis	Ruminal fluid examination	Lecture and explanation ppt	Daily exam questions and discussion
١٤	٢ hrs. theoretical	Knowing the method of liver function test	Liver function test	Lecture and explanation	Daily exam questions and discussion
	٢ hrs. practical	Knowing the causes of glucose urea	Kidney function test	Lecture and explanation ppt	Daily exam questions and discussion
١٥	٢ hrs. theoretical	Knowing the causes of blood urea nitrogen	Kidney function test	Lecture and explanation	Daily exam questions and discussion
	٢ hrs. practical	Knowing the mechanism of megakaryocytopoiesis	Platelets	Lecture and explanation ppt	Daily exam questions and discussion

### 11- Course Evaluation

The distribution is as follows: 20 marks for monthly exams, 5 daily exams and quizzes, 5 reports, 10 practical exams. 60 marks for final exams

### 12- Learning and Teaching Resources

Required textbooks (curricular books, if any)	Veterinary clinical pathology
Main references (sources)	Handbook of Veterinary clinical pathology
Recommended books and references (scientific journals, reports...)	Large animal Theriogenology . • □ Arthur, physiology in farm animals, 2001. • □ clinical pathology ,2nd



Electronic References, Websites	College of Veterinary Medicine website electronic lectures google class room