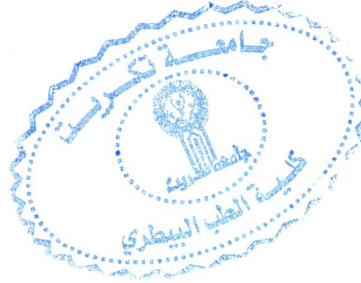
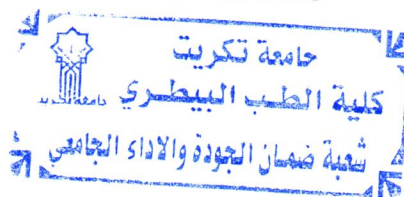


**Ministry of Higher Education and Scientific Research  
Scientific Supervision and Scientific Evaluation Apparatus  
Directorate of Quality Assurance and Academic Accreditation  
Accreditation Department**



# Academic Program and Course Description Guide

**2025-2026**



## **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: Pathology and Poultry diseases

Academic or Professional Program Name: Fish diseases

Final Certificate Name: Bachelor of Veterinary Medicine and Surgery

Academic System: Course

Description Preparation Date: 5/10/2025

File Completion Date: 6/11/2025

Signature:

Head of Department Name:  
Prof. Dr. Hassan Hadi Khorisheed  
Head of Department of Pathology  
and Poultry disease

Date:

2025/11/6

Signature:

Scientific Associate Name:

Asst. Prof. Dr.  
Montaser M. Helal

Date:

The file is checked by:

Department of Quality Assurance and University Performance

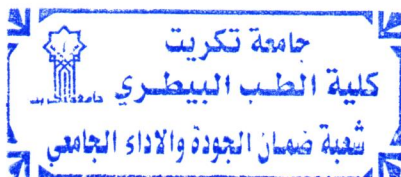
Director of the Quality Assurance and University Performance Department:

Date: 6/11/2025

Asist. Prof. Dr.

Ahmed Abdullah Sultan

Signature:



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



### **1. Program Vision**

The College of Veterinary Medicine/Tikrit University seeks to be one of the leading higher education institutions at Tikrit University in the field of higher education and scientific research through its scientific, academic, research and administrative activities. It also works to provide an integrated path for its students and professors so that they can be creative and effective in serving the community and the labor market in the field of Fish and their diseases and ways to prevent these diseases.

### **2. Program Mission**

Working to prepare and graduate leading scientific and leadership competencies in the field of fish diseases and health, as well as developing the knowledge and information stock of students in a way that reflects positively on the labor market and providing the best service to society by providing valuable scientific knowledge and information in a way that refines students' awareness and increases their skills in the field of fish management, health and diseases.

### **3. Program Objectives**

- 1- Graduating veterinarians capable of performing their work in the field of community service with high efficiency.
- 2- Examination and treatment of various field animals, poultry, and fish ponds, under supervision and treatment.
- 3- Preventing infectious and non-communicable diseases through media campaigns to educate those concerned and interested in this sector of work, in addition to carrying out vaccination campaigns against diseases.
- 4- Providing consultations in the field of care and nutrition of animals, poultry and fish.
- 5- Using modern equipment in laboratories to raise performance efficiency in

order to advance scientific and applied research in the service of society.

6- Obtaining a safe food product of healthy animal origin and free of diseases.

8. Spreading environmental and cultural awareness of the importance of veterinary medicine in serving society and developing the environment in the field of veterinary medicine.

#### 4. Program Accreditation

National institutional accreditation standards for higher education institutions in Iraq

#### 5. Other external influences

Iraqi universities, Ministry of Agriculture, General Veterinary Authority

#### 6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	30			Basic course
College Requirements	yes			
Department Requirements	yes			
Summer Training	Not found			
Other	Not found			

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

#### 7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
5 <sup>th</sup> /2025-2026	VED5110	Fish diseases	theoretical	practical

## 8. Expected learning outcomes of the program

### Knowledge

- 1- Enabling students to obtain knowledge and understanding of the intellectual and skills framework for fish diseases
- 2- Enabling students to obtain knowledge and understanding of the anatomy and tissues and the changes that occur when they are infected with fish diseases.
- 3- Increasing the knowledge and skills of graduate students in how to deal, diagnose and treat diseases that affect fish

### Skills

- 1--Differentiating between healthy and sick fish
- 2- Increasing students' awareness of pathological changes after contracting the disease
- 3- Increasing the ability to identify affected organs histologically
- 4- Increasing the student's knowledge of methods of dissecting animals, poultry and fish for the purpose of diagnosing disease

### Ethics

- Identify diseases in detail
- 2- Knowing the most important symptoms and signs to make predictions and questions to reach an accurate diagnosis of the disease
- 3- Increasing the student's ability to link events to reach an accurate diagnosis
- 4- Expanding the student's mind in the field of general and special pathology, poultry and fish diseases, and pathological anatomy after death.

## 9. Teaching and Learning Strategies

Providing students with the basics and additional topics related to the previous learning outcomes of fish diseases

- Applying the topics studied theoretically in the practical aspect within the specialty of fish diseases
- Visiting practical laboratories by academic staff.

## 10. Evaluation methods

Daily and monthly exams.

-Semester and final exams.

Participation marks for competition questions for academic subjects.

Academic Rank	Specialization		Number of the teaching staff	
	General	Special	Staff	Lecturer
Lecturer	Veterinary Medicine and surgery	Fish diseases	Staff	

### Professional Development

#### Mentoring new faculty members

#### Professional development of faculty members

Teaching development of students' abilities in research and investigation through field visits to animal fields, fish ponds, and projects related to veterinary medicine, encouraging weekly visits to the library, and reviewing sources, books, and magazines as a source of information.

### 11. Acceptance Criterion

Central/according to the requirements of the Ministry of Higher Scientific Education

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

.General pathology

-Diseases of Carp. June et al 2012, 13 edition

-Fish Disease: Diagnosis and Treatment, Second Edition Author(s): Edward J. Noga M.S., D.V.M.,2010.

-Fish Diseases and Diagnosis, S.D. Peter, 2009

### 13. Program Development Plan

The plan to develop the program includes relying on modern sources related to fish diseases, knowledge of the latest scientific findings in this field, and the use of

modern technologies and methods in diagnosis and treatment of disease cases, in addition to conducting scientific research and studies that will enhance the students' cognitive values and their constant orientation to the necessity of linking what they obtain. From theoretical knowledge to the practical side

### 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
3 <sup>rd</sup> level	VED3120	Pathology I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VED3110	Pathology II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
4 <sup>th</sup> level	VED4114	Poultry Diseases I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VED4124	Poultry Diseases II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VED4111	Pathological anatomy I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VED4121	Pathological anatomy II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Fifth level	VED5110	Fish diseases I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VED5122	Forensic medicine II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VED5119	Professional conduct II	Basic	√	√	√	√	√	√	√	√	√	√	√	√

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

## Course Description Form

<b>1. Course Name:</b>	
Fish diseases	
<b>2. Course Code:</b>	
<b>VED5110</b>	
<b>3. Semester / Year:</b>	
Semester	
<b>4. Description Preparation Date:</b>	
6/ 10/ 2025	
<b>5. Available Attendance Forms:</b>	
Attendance only	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
60 hours annually. 4 hours per week / 3 units	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assist. Prof. <b>Qusai Saleh Jumma</b> Email: qusaisaleh@tu.edu.iq	
<b>8. Course Objectives</b>	
<b>1- Identify the concept of fish pathology</b> <b>2- The animal's condition after signs of illness appear</b> <b>3- Disease developments and disease course</b> <b>4- Changes that occur in the animal after the disease appears</b> <b>5- The students achieved knowledge of the histological changes and clinical signs and linked them to the general changes in the medical condition.</b> <b>6- Identify the most important diseases that affect animals, poultry, and fish, and what happens after death.</b>	
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	1- Direct education strategy. 2- Brainstorming education strategy. 3- Interactive and active education strategy 4- Self-education

## 10. Course Structure

11. Course Structure:- Five year

Course Name :Theoretical Fish diseases / 2 hours

Semester: First

Week	Hours	ILOs	Unit/Module orTopic Title	TeachingMethod	AssessmentMethod
1	Two theoretical	<b>Introduction to aquaculture</b>	<b>Introduction to Aquaculture</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
2	Two theoretical	Knowing the diseases caused by changes in the fish environment	<b>Environmental diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
3	Two theoretical	Identify diseases resulting from poisoning	<b>Toxic diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
4	Two theoretical	Identify nutritional deficiency diseases	<b>Nutritional diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
5	Two theoretical	Knowledge of bacterial diseases	<b>Bacterial diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
6	Two theoretical	Knowledge of bacterial diseases	<b>Bacterial diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
7	Two theoretical	Knowledge of bacterial viruses	<b>Viral diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
8	Two theoretical	Knowledge of bacterial viruses	<b>Viral diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
9	Two theoretical	Identify fungal diseases	<b>Mycotic diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
10	Two theoretical	Identify fungal diseases	<b>Mycotic diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
11	Two theoretical	Identify protozoan parasitic diseases	<b>Protozoal diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
12	Two theoretical	Identify protozoan parasitic diseases	<b>Protozoal diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
13	Two theoretical	Identify parasitic diseases	<b>Parasitic diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
14	Two theoretical	Identify parasitic diseases	<b>Parasitic diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>
15	Two theoretical	Identify diseases caused by crustaceans	<b>Creastal diseases</b>	<b>Lecture and explanation</b>	<b>Questions and discussion daily exam</b>

Examine

11. Course Structure:- Five year

Course Name :Practical Fish diseases / 2 hours

Semester: First

Week	Hours	ILOs	Unit/Module orTopic Title	TeachingMethod	AssessmentMethod
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1	Two theoretical	Identify the types of fish ponds	Fish ponds	Lecture and explanation	Questions and discussion daily exam
2	Two theoretical	Knowing the physical properties of pond water	Physiological water Properties	Lecture and explanation	Questions and discussion daily exam
3	Two theoretical	Knowledge of the chemical properties of pond water	Chemical water properties	Lecture and explanation	Questions and discussion daily exam
4	Two theoretical	Knowledge of the chemical properties of pond water	Chemical water properties	Lecture and explanation	Questions and discussion daily exam
5	Two theoretical	Knowledge of bacterial diseases	Fish narcosis	Lecture and explanation	Questions and discussion daily exam
6	Two theoretical	Know how to anesthetize fish	Fish anatomy	Lecture and explanation	Questions and discussion daily exam
7	Two theoretical	Learn about fish anatomy	Fish sampling	Lecture and explanation	Questions and discussion daily exam
8	Two theoretical	Learn about fish anatomy	Health condition	Lecture and explanation	Questions and discussion daily exam
9	Two theoretical	Fish sampling	Diagnosis methods	Lecture and explanation	Questions and discussion daily exam
10	Two theoretical	Identify the most important health conditions that must be provided in fish ponds	Bacterial examination	Lecture and explanation	Questions and discussion daily exam
11	Two theoretical	Identify the most important health conditions that must be provided in fish ponds	Bacterial examination	Lecture and explanation	Questions and discussion daily exam
12	Two theoretical	Methods of diagnosing fungal diseases	Parasitic Examination	Lecture and explanation	Questions and discussion daily exam
13	Two theoretical	Conducting bacterial tests	Clinical therapeutics	Lecture and explanation	Questions and discussion daily exam
14	Two theoretical	Conducting bacterial tests	Fish comparative diagnosis	Lecture and explanation	Questions and discussion daily exam
15	Two theoretical	Conduct parasitological tests	Fish narcosis	Lecture and explanation	Questions and discussion daily exam
Examine					

## 11. Course Evaluation

The distribution is as follows: 25 marks for the theoretical and practical monthly exams, 15. The score for the final theoretical exam is 40, and the score for the final practical exam is 20.

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	-Fish Disease: Diagnosis and Treatment, Second Edition Author(s): Edward J. Noga M.S., D.V.M.,2010.
Main references (sources)	-Fish Diseases and Diagnosis, S.D. Peter, 2009
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	