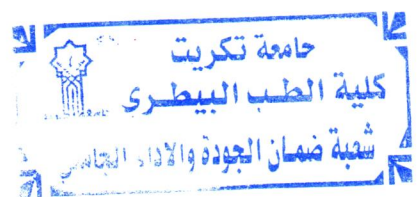


Ministry of Higher Education and Scientific Research  
Scientific Supervision and Scientific Evaluation Apparatus  
Directorate of Quality Assurance and Academic Accreditation  
Accreditation Department



# Academic Program and Course Description Guide



## **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.

### **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 toxins and their groups and how these toxins work and their negative effects. In addition to how to control, manage and treat poisoning processes.

2- In order to be able to know the changes that occur in toxins from the body's various tissues, including the processes of absorption, distribution, metabolism, and excretion.

3- The student will be familiar with the importance of toxicology, its effects, and its clinical applications.

4- Increasing the student's cognitive awareness regarding methods of applying practical experiments on toxins, 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

## 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: 5/10/2025

File Completion Date: 6/11/2025

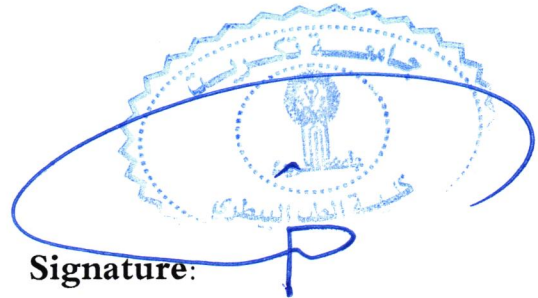
Signature: 

Head of Department Name:

Prof. Buthaina Abdel Hamid

Date:





Signature:

Scientific Associate Name:

Ass.Prof. Muntaser

Mohammed Helal

Date:



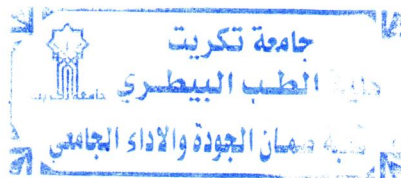
The file is checked by:

Department of Quality Assurance and University Performance

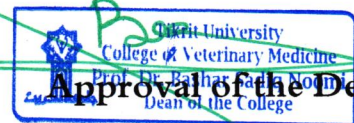
Director of the Quality Assurance and University Performance Department:

Date:

Signature:







# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>General Chemistry</b>		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	<b>VET105</b>		
ECTS Credits	6		
SWL (hr/sem)	<b>150</b>		
Module Level	1	Semester of Delivery	
Administering Department	Physiology, Biochemistry and Pharmacology	College	Veterinary Medicine
Module Leader	Reem Suhail Najm	e-mail	Reemshuil84@tu.edu.iq
Module Leader's Acad. Title	Assist. Professor Dr.	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available) Dr.Reem Suhail Najm	e-mail	E-mail: Reemshuil84@tu.edu.iq
Peer Reviewer Name	Professor Dr Dr. Buthaina Abdulhamee	e-mail	E-mail:
Scientific Committee Approval Date	05/10 /2025	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

## Module Aims, Learning Outcomes and Indicative Contents

### أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p><b>Module Objectives</b> أهداف المادة الدراسية</p>	<ol style="list-style-type: none"> <li>1. To understand atoms, molecules, and biomolecules.</li> <li>2. To develop problem solving skills and understanding of principles of biochemistry.</li> <li>3. The course deals with the basic concept of carbohydrates, lipids, proteins, enzymes, and vitamins.</li> <li>4. This course includes biochemistry and biochemical reactions inside animal body.</li> </ol>
<p><b>Module Learning Outcomes</b> مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"> <li>1. The main objective is to teach students the basics of biochemistry and its relationship to other basic and clinical sciences from the molecular and cellular levels to tissues, organs and various body systems.</li> <li>2. Identify how animal body biomolecules integrate with each other.</li> <li>3. List the main carbohydrates classification and importance to body.</li> <li>4. Identify types of lipids and their functions.</li> <li>5. Classify amino acids and proteins with their main function.</li> <li>6. List the various biochemical tests that can be conduct.</li> <li>7. Recognize the biochemical fluctuations associated with different disorders and diseases in animals.</li> </ol>
<p><b>Indicative Contents</b> المحتويات الإرشادية</p>	<p>Indicative content includes the following:</p> <p><u>Part A – Analytic and organic chemistry</u></p> <ul style="list-style-type: none"> <li>• Atom</li> <li>• Types of bonds</li> <li>• Preparation of solutions</li> <li>• Molarity and molality</li> <li>• Aldehydes and ketones</li> <li>• Alcohols and carboxylic acids</li> <li>• Amines and amides</li> </ul> <p>[SSWL=6 hrs]</p> <p><u>Part B - Carbohydrates</u></p> <ul style="list-style-type: none"> <li>• Definition, Classification and Functions of Carbohydrates</li> <li>• Structure of Glucose</li> <li>• Isomerism • Mutarotation</li> <li>• Chemical Properties of Monosaccharides • Glycoside Formation</li> <li>• Derivatives of Monosaccharides • Disaccharides • Polysaccharides (Glycans)</li> <li>• Glycoproteins</li> </ul> <p>[SSWL=8 hrs]</p> <p><u>Part C - Lipids</u></p> <ul style="list-style-type: none"> <li>• Definition, Classification and Functions of Lipids</li> <li>• Fatty Acids • Essential Fatty Acids</li> <li>• Reactions of Lipids • Characterization of Fat</li> <li>• Triacylglycerols and Neutral Fat • Phospholipids</li> <li>• Glycolipids • Cholesterol • Lipoproteins • Eicosanoids</li> </ul>

	<ul style="list-style-type: none"> <li>• Micelles, Lipid Bilayer and Liposomes.</li> </ul> <p>[SSWL=6 hrs]</p> <p><u>Part D – Amino acids and proteins</u></p> <ul style="list-style-type: none"> <li>• General Nature of Amino Acids</li> <li>• Classification of Amino Acids</li> <li>• Modified or Nonstandard Amino Acids</li> <li>• Properties of Amino Acids</li> <li>• Biologically Important Peptides</li> <li>• Definition, Classification and Functions of Proteins</li> <li>• Structure of Proteins</li> <li>• Properties of Proteins</li> </ul> <p>[SSWL=10 hrs]</p> <p><b>Total hrs = 30</b></p>
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### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

<b>Strategies</b>	<p>Encouraging the student's commitment to attendance and active participation in lectures and taking daily, semester and final theoretical and practical exams.</p> <p>Using educational and technological means, and the modern method in teaching the subject and referring to practical training examples. Discussion is used in lectures as an effective means of delivering the study material to students and keeping up with the latest methods, approaches and modern trends in the teaching process.</p>
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### Student Workload (SWL)

#### الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	63	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا	4
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	87	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا	5
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل	<b>150</b>		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	4	10% (20)	2, 4, 6, 8	LO #1, #2, #3, #4
	Assignments	1	10% (10)	5	LO #5, #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	10	LO #1, #6 and #7
Summative assessment	Midterm Exam	1hr	10% (10)	7	LO #1-#7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Atom and Types of bonds
Week 2	Preparation of solutions, molarity and molality
Week 3	Aldehydes and ketones, Alcohols, carboxylic acids, amines and amides
Week 4	Classification and Functions of Carbohydrates
Week 5	Monosaccharides and Disaccharides
Week 6	Derivatives of Monosaccharides
Week 7	Polysaccharides
Week 8	Classification and Functions of Lipids
Week 9	Fatty Acids
Week 10	Lipoproteins
Week 11	General Nature of Amino Acids and Classification of Amino Acids
Week 12	Modified or Nonstandard Amino Acids
Week 13	Properties of Amino Acids and Biologically Important Peptides
Week 14	Definition, Classification of Proteins
Week 15	Functions and properties of proteins
Week 16	Preparatory week before the final Exam