

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

*Biovisk management*



# **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: College of Veterinary Medicine  
Scientific Department: Microbiology.  
Academic or Professional Program Name: Biorisk management  
Final Certificate Name: BSc degree in Veterinary Medicine  
Academic System: Courses  
Description Preparation Date: 5/10/2025  
File Completion Date: 6/11/2025



  
Signature: Head of department in  
Head of Department Name:  
Date: 6/11/2025. Ahmed

  
Signature:  
Scientific Associate Name:  
Date: 6/11/2025

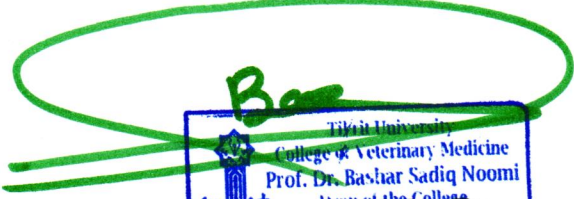
Asst. Prof. Dr.  
Montaser M. Helal

The file is checked by:  
Department of Quality Assurance and University Performance  
Director of the Quality Assurance and University Performance  
Department:

Asist. Prof. Dr.  
Ahmed Abdullah Sultan

Date: 6/11/2025

Signature: 

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

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Biorisk management</b>		Module Delivery
Module Type	<b>Core</b>		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	<b>VET104</b>		
ECTS Credits	<b>3</b>		
SWL (hr/sem)	<b>75</b>		
Module Level	1	Semester of Delivery	
Administering Department	Microbiology	College	College of Veterinary Medicine
Module Leader	Zeyad Taha Hussein	e-mail	<a href="mailto:Zeyad81@tu.edu.iq">Zeyad81@tu.edu.iq</a>
Module Leader's Acad. Title	Zeyad Taha Hussein	Module Leader's Qualification	Lecturere
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Zeyad Taha Hussein	e-mail	<a href="mailto:Zeyad81@tu.edu.iq">Zeyad81@tu.edu.iq</a>
Scientific Committee Approval Date	2025/11/6	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	
Module Objectives أهداف المادة الدراسية	<ol style="list-style-type: none"><li>1. Important Concepts for Understanding risk and biosafety.</li><li>2. Working with potentially infected animals.</li><li>3. This course deals with biological materials</li><li>4. Decontamination and waste disposal</li><li>5. To understand storage of chemicals.</li><li>6. To understand the first aid and emergency response in the laboratories.</li></ol>

<b>Module Learning Outcomes</b> مخرجات التعلم للمادة الدراسية	Important: Write at least 6 Learning Outcomes, better to be equal to the number of study weeks. 1. Distinguish between biological materials 2. Understand the types of PPE. 3. Standard microbiological techniques. 4. Give a definition of Hazardous chemicals. 5. Distinguish between biosafety cabinet classes. 6. Describe first aid and emergency response in the laboratories.
<b>Indicative Contents</b> المحتويات الإرشادية	

<b>Learning and Teaching Strategies</b> استراتيجيات التعلم والتعليم	
<b>Strategies</b>	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.

<b>Student Workload (SWL)</b> الحمل الدراسي للطلاب محسوب لـ ١٥ اسبوعا			
<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطلاب خلال الفصل	18	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطلاب أسبوعيا	3
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطلاب خلال الفصل	57	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطلاب أسبوعيا	6
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطلاب خلال الفصل	75		

<b>Module Evaluation</b> تقييم المادة الدراسية					
		<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Formative assessment</b>	<b>Quizzes</b>	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	<b>Assignments</b>	2	10% (10)	2 and 12	LO #3, #4 and #6, #7

	<b>Projects / Lab.</b>	1	10% (10)	Continuous	All
	<b>Report</b>	1	10% (10)	13	LO #5, #8 and #10
<b>Summative assessment</b>	<b>Midterm Exam</b>	2hr	10% (10)	7	LO #1 - #7
	<b>Final Exam</b>	3hr	50% (50)	16	All
<b>Total assessment</b>			100% (100 Marks)		

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
<b>Week 1</b>	Introduction: Definitions & Concepts Risk, Hazard, Biorisk, Biosafety, and Biosecurity.
<b>Week 2</b>	Biological Materials ( Bacteria, Viruses, Fungi, Parasites, Prions, Zoonotic pathogens, Toxins ).
<b>Week 3</b>	Personal protective equipment ( PPE ). Types of PPE, Route of exposure to pathogens.
<b>Week 4</b>	Laboratory safety symbols and hazard signs.
<b>Week 5</b>	Risks groups and Biosafety Levels.
<b>Week 6</b>	Biosafety cabinet classes :Design, Operation, ,use and misuse.
<b>Week 7</b>	Standard Microbiology Techniques and Safety.
<b>Week 8</b>	Safe use of ( pipettes ,centrifuge , homogenizers , shakers , blenders , and sonicators ,ampoules containing infectious materials) .
<b>Week 9</b>	Collection , handling and transport of diagnostic specimens.
<b>Week 10</b>	Decontamination and waste disposal.
<b>Week 11</b>	Working with potentially infected animals. General considerations.
<b>Week 12</b>	Hazardous chemicals (Routes of exposure, storage of chemicals, general rules regarding chemical incompatibilities.
<b>Week 13</b>	Toxic effects of chemicals, Explosive chemicals, Chemical spills , Compressed and liquefied gases ).
<b>Week 14</b>	Preparedness and response to Chemical, Biological accidents: - In the Laboratories. - In the field.
<b>Week 15</b>	First aid and emergency response in the Laboratories.
<b>Week 16</b>	Preparatory week before the final Exam

## Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
<b>Required Texts</b>		Yes
<b>Recommended Texts</b>	The biological laboratory risk management handbook WHO-Biosafety-Manual	No
<b>Websites</b>		

## Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	امتياز	90 - 100	Outstanding Performance
	<b>B - Very Good</b>	جيد جدا	80 - 89	Above average with some errors
	<b>C - Good</b>	جيد	70 - 79	Sound work with notable errors
	<b>D - Satisfactory</b>	متوسط	60 - 69	Fair but with major shortcomings
	<b>E - Sufficient</b>	مقبول	50 - 59	Work meets minimum criteria
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	راسب (فيد المعالجة)	(45-49)	More work required but credit awarded
	<b>F – Fail</b>	راسب	(0-44)	Considerable amount of work required

**Note:** Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54). The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.