

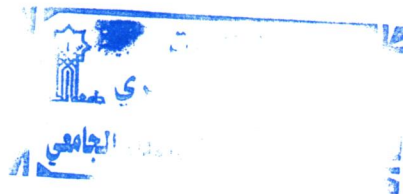
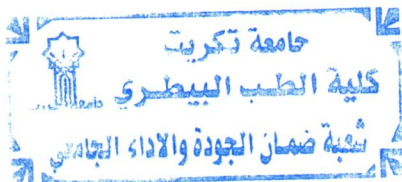


## MODULE DESCRIPTION FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Biorisk management</b>		Module Delivery
Module Type	Core		<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	3		
SWL (hr/sem)	<b>75</b>		
Module Level	1	Semester of Delivery	
Administering Department	Microbiology	College	College of Veterinary Medicine
Module Leader	Omaima Ibrahim Mahmood	e-mail	<a href="mailto:dr.omaimapara@tu.edu.ig">dr.omaimapara@tu.edu.ig</a>
Module Leader's Acad. Title	Prof.	Module Leader's Qualification	
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	2025	Version Number	<b>1.0</b>

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



<b>Module Aims, Learning Outcomes and Indicative Contents</b> أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
<b>Module Objectives</b> 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	<p>Important: Write at least 6 Learning Outcomes, better to be equal to the number of study weeks.</p> <ol style="list-style-type: none"> <li>1. Distinguish between biological materials</li> <li>2. Understand the types of PPE.</li> <li>3. Standard microbiological techniques.</li> <li>4. Give a definition of Hazardous chemicals.</li> <li>5. Distinguish between biosafety cabinet classes.</li> <li>6. Describe first aid and emergency response in the laboratories.</li> </ol>
<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 للطالب محسوب لـ ١٥ اسبوعا			
<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	18	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا	3
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	57	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
<b>Total SWL (h/sem)</b>	<b>75</b>		



Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	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	Introduction: Definitions & Concepts Risk, Hazard, Biorisk, Biosafety, and Biosecurity.
Week 2	Biological Materials ( Bacteria, Viruses, Fungi, Parasites, Prions, Zoonotic pathogens, Toxins ).
Week 3	Personal protective equipment ( PPE ). Types of PPE, Route of exposure to pathogens.
Week 4	Laboratory safety symbols and hazard signs.
Week 5	Risks groups and Biosafety Levels.
Week 6	Biosafety cabinet classes :Design, Operation, ,use and misuse.
Week 7	Standard Microbiology Techniques and Safety.
Week 8	Safe use of ( pipettes ,centrifuge , homogenizers , shakers , blenders , and sonicators ,ampoules containing infectious materials) .
Week 9	Collection , handling and transport of diagnostic specimens.
Week 10	Decontamination and waste disposal.
Week 11	Working with potentially infected animals. General considerations.
Week 12	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</b> - Excellent	امتياز	90 - 100	Outstanding Performance
	<b>B</b> - Very Good	جيد جدا	80 - 89	Above average with some errors
	<b>C</b> - Good	جيد	70 - 79	Sound work with notable errors
	<b>D</b> - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	<b>E</b> - Sufficient	مقبول	50 - 59	Work meets minimum criteria
<b>Fail Group (0 - 49)</b>	<b>FX</b> – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	<b>F</b> – Fail	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.