

نموذج وصف المادة الدراسية

Module Information

MODULE DESCRIPTION FORM

معلومات المادة الدراسية

Module Title	General microbiology		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	UOMU037036			
ECTS Credits	5			
SWL (hr/sem)	125			
Module Level	2	Semester of Delivery		3
Administering Department	Medical Biotechnology	College		
Module Leader	Hasanain Khaleel Ibrahim	e-mail	<a href="mailto:Hasanain.Khaleel.Ibrahim@uomus.edu.iq">Hasanain.Khaleel.Ibrahim@uomus.edu.iq</a>	
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Ph.D.	
Module Tutor	Name (if available)	e-mail	E-mail	
Peer Reviewer Name	Name	e-mail	E-mail	
Scientific Committee Approval Date	14/11/2025	Version Number	1.0	

Relation with other Modules  
 العلاقة مع المواد الدراسية الأخرى

Prerequisite module	Medical microbiology	Semester	4
Co-requisites module	None	Semester	

<b>Module Aims, Learning Outcomes and Indicative Contents</b> <b>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية</b>	
<b>Module Objectives</b> <b>أهداف المادة الدراسية</b>	<ol style="list-style-type: none"> <li>1. This course is designed to give students not majoring in the essential background in Microbiology</li> <li>2. Evolution to understand Microorganisms.</li> <li>3. The material covered includes basic biological concepts and fundamental principles of Microbiology</li> <li>4. The role of Microbial Virulence in various diseases</li> <li>5. Recognized the relationship between Microorganisms and specific diseases</li> <li>6. Control of Microorganisms</li> <li>7. learning the Viruses Structure, Organization, Cultivation, and Viral Pathogenesis</li> <li>8. Microbial Metabolism &amp; Cellular Regulation</li> <li>9. Understanding Antimicrobial Chemotherapy</li> </ol>
<b>Module Learning Outcomes</b> <b>مخرجات التعلم للمادة الدراسية</b>	<ol style="list-style-type: none"> <li>1. Give an introduction of Microbiology</li> <li>2. List various experiments how to deal with microorganisms.</li> <li>3. Summarize Traditional Approaches to the Study Microbial Disease</li> <li>4. Explain and understanding the Virulence.</li> <li>5. Discuss the metabolism of Microorganisms.</li> <li>6. Define parental diagnosis and inherited diseases.</li> <li>7. Identify the types of Microorganisms.</li> <li>8. Illustrated the various methods how to control the microorganisms</li> </ol>
<b>Indicative Contents</b> <b>المحتويات الإرشادية</b>	<p>In lecture lab #1-#5 they will need (10hr).</p> <p>In lecture lab #7- #13 they will need (50 hr).</p> <p>In lecture lab #15 they will need (<b>10hr</b>)</p>

### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	Report Writing, Field Visits, Theoretical Lectures, Scientific Films, Exploratory Work Teams
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### Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ 15 أسبوعاً

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	46	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	61	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

### Module Evaluation

تقييم المادة الدراسية

As	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	3	10% (10)	3,9,12 Lo#1,2,10, and11
	Assignments	2	10% (10)	13,14 Lo#3,4,6, and 8
	Projects / Lab.	1	10% (10)	Continuous
	Report	1	10% (10)	#15
Summative assessment	Midterm Exam	1hr	10% (10)	8 #1_#8
	Final Exam	3hr	50% (10)	All
Total assessment		100% (100 Marks)		

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	Introduction to microbiology
Week 2	Gram negative bacteria
Week 3	Gram positive bacteria
Week 4	Bacterial nutrition
Week 5	Microbial control
Week 6	Microbial genetics
Week 7	Microbial metabolism and cellular Regulation
Week 8	First Exam
Week 9	General characters of viruses
Week 10	Classification of viruses
Week 11	Oncogenic viruses
Week 12	Medically important fungi
Week 13	Medically important protozoa
Week 14	Normal microbial flora
Week 15	2nd.Exam
Week 16	Review

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered
Week 1	Introduction and general instruction
Week 2	Microscope and Microscopy
Week 3	Microscopic slide technique
Week 4	Sterilization methods
Week 5	Culture media
Week 6	Counting microorganisms
Week 7	Isolation of pure cultures
Week 8	First exam
Week 9	Growing culture anaerobically
Week10	Biochemical tests
Week 11	Antibiotic sensitivity tests
Week 12	Microbial isolation
Week13	Clinical specimens
Week14	Serology
Week15	Mycology
Week16	2 <sup>nd</sup> . examination

### Learning and Teaching Resources

مصادر التعلم والتدریس

		Text	Available in the Library?
Required Texts	<b>Foundations in Microbiology, Fourth Edition, The McGraw-Hill, (2002)</b> <b>Jawetz, Melnick, &amp; Adelberg's Medical Microbiology, Twenty-Fifth Edition, USA, McGraw-Hill Companies (2010)</b> <b>Required Texts</b> ;.Harvey, Richard A.; Champe, Pamela C Fisher, Bruce D		Yes
Recommended Texts	<b>Lippincott's Illustrated Reviews: Microbiology, 2nd Edition, Lippincott Williams &amp; Wilkins. (2007)</b>		No
Websites	related scientific papers ( <a href="https://www.researchgate.net/publication/289980213">https://www.researchgate.net/publication/289980213</a> )		

### Grading Scheme

مخطط الدرجات

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