



Ministry of Higher Education and
Scientific Research - Iraq
AL Mustaqba University
College of science
Department of biology



"COURSE PORTFOLIO"

Module Information				
معلومات المادة الدراسية				
Module Title	Public fungus		Module Delivery	
Module Type	Basic		<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	Bio-			
ECTS Credits	7.0			
SWL (hr/sem)	175			
Module Level	3	Semester	1	
Department	Biological	College	College of Science	
Module Leader	M.M. Banin Maan Karim	E-mail	baneen.maen.kareem@uomus.edu.iq	
Module Leader's Acad. Title		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		Version Number		

Student Workload (SWL): Structured SWL (h/w) (Two contact hours of lectures) + Unstructured SWL (h/w) .

Student Workload (SWL)			
الحمل الدراسي للطالب			
Structured SWL (h/sem)	64	Structured SWL (h/w)	4
الحمل الدراسي المنتظم للطالب خلال الفصل		الحمل الدراسي المنتظم للطالب أسبوعيا	
Unstructured SWL (h/sem)	111	Unstructured SWL (h/w)	7.40
الحمل الدراسي غير المنتظم للطالب خلال الفصل		الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem)	175		
الحمل الدراسي الكلي للطالب خلال الفصل			



Relation with other Modules:-

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

COURSE DESCRIPTION:

Students will explore the structure and function of fungal cells, mechanisms of growth, and interactions with plants, animals, and humans. The course also addresses pathogenic fungi, modes of infection, diagnosis, and control methods. Laboratory sessions give students hands-on experience in culturing fungi, observing microscopic structures, and identifying fungal species. This course prepares students for advanced studies in microbiology, biotechnology, environmental biology, and medical mycology.

Module Aims

أهداف المادة الدراسية

1. Introduce students to fungal classification, morphology, and reproductive strategies.
2. Provide knowledge of fungal cell structure, metabolism, and growth mechanisms.
3. Explore the ecological roles of fungi in nutrient cycling and decomposition.
4. Identify medically, agriculturally, and environmentally important fungi.
5. Develop students' ability to diagnose fungal infections in laboratory settings.
6. Train students to isolate, culture, and identify fungal species.

Module Learning Outcomes

مخرجات التعلم للمادة الدراسية

(Knowledge and Understanding) المعارف والفهم

1. تمييز الصفات الأساسية للفطريات وتركيبها الداخلي.
2. شرح طرق التكاثر في الفطريات: الجنسي واللاجنسي.
3. التعرف على الفطريات الممرضة وآليات إحداث المرض.

(Cognitive Skills) المهارات الذهنية

4. تحليل العينات الفطرية وربط الشكل المجهرى بالتصنيف.
5. تقييم الظروف البيئية التي تؤثر على نمو الفطريات.

(Practical Skills) المهارات العملية

6. عزل وزراعة الفطريات في المختبر بطريقة صحيحة.
7. استخدام المجهر لتحديد التراكيب الفطرية المميزة.
8. إجراء اختبارات تشخيصية للأمراض الفطرية.

Indicative Contents

المحتويات الإرشادية



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Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
1- Required textbooks	Fungi / 1981/ Ibrahim Al-Suhaili and others	No
2- Main references (sources)	Fundamentals of Mycology 1987/ Abdullah Abu Haila	No
A- Recommended books and references (scientific journals, reports, etc.)	1980 Introduction to Mycology/ Alexopolus & Mims	No

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A – Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	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)	A considerable amount of work is 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.



COURSE SCHEDULE:-

Week	hours	Topics Covered	Learning Outcomes
1	2	Oomycetes General Characteristics	
2	2	Order saprolageniales	
3	2	Details Order peronosporale	
4	2	<i>Vitis Fungi</i>	
5	2	Ascomycetes General Characteristics and Classification	
6,7,	2	Euascomycetes	
8	2	Ascomycetes	
9	2	Heterobasidiomycetes General Characteristics and Classification	
10	2	Homo basidiomycetes	
11	2	Imperfect Fungi Characteristics, Importance and Methods of Classification	
12	2	Order mondiales	
13	2	Sterile Fungi and melanconiales	
14	2	Medical Fungi - Skin Diseases	
15	2	Systemic Diseases	
Final Exam			



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Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered
Week 1	Oomycetes Ascomycetes
Week 2	Zygomycetes
Week 3	Eusascomycetidae
Week 4	Viriomycetes
Week 5	Chaetomiales
Week 6,7	Discomycetes
Week 8	Bizizales
Week 9	Heterobasidiomycetideae
Week 10	Rust Pathogens on Plants
Week 11	Order Ostiligenalis
Week 12	Hymenomycetes
Week 13	Gastromycetes
Week 14	Dentesomycetes



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Learning Outcomes and Assessment Methods for " Immunology " Course.

Topics Covered	Learning Outcomes	Strategies for Achieving Outcomes	Assessment Methods
Oomycetes General Characteristics	1-6	Report Writing, Field Visits, Theoretical Lectures, Scientific Films, Exploratory Work Teams.	Quizzes, Major reports, discussions during lectures, Written Exams, and oral exams.
Euscomycetes	1-3	Problem-Based Learning, Report Writing, Field Visits, Scientific Trips, Theoretical Lectures, Small Group Discussions, Scientific Films, Exploratory Work Teams.	Seminars , Major reports, and discussions during lectures. Written Exams, oral exams.
Ascomycetes	3-6	Problem Based Learning, Report Writing, Theoretical Lectures, Small Group Discussions, Scientific Films.	Quizzes, discussions during lectures, Written Exams, homework, and oral exams.
Imperfect Fungi Characteristics, Importance and Methods of Classification	1-6	Report Writing, Scientific Trips. Theoretical Lectures, Small Group Discussions, and Scientific Films.	Seminars , Major reports, and discussions during lectures. Written Exams, oral exams.
Order mondiales	1-3	Theoretical Lectures, Small Group Discussions,	Seminars , quizzes, discussions during lectures, Written Exams, and oral exams.
Medical Fungi - Skin Diseases	1-6	Problem-Based Learning, Report Writing, Field Visits, Scientific Trips, Theoretical Lectures, Small Group Discussions, Scientific Films, and Exploratory Work Teams.	Seminars , quizzes, Major reports, Written Exams, homework, and oral exams.
Systemic Diseases	2-3	Problem-Based Learning, Theoretical Lectures, Small Group Discussions.	Quizzes and discussions during lectures. Written Exams, Homework.



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Module Evaluation:-

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment (40%)	Quizzes	2	10% (10)	5, 10	LO #1, 3 and 5
	Assignments & H.W.	2	10% (10)	2, 12	LO # 1, 3 and 6
	Projects / Lab.	1	10% (10)	Continuous	
	Seminar	1	10% (10)		
	Field Visits Report	1	10% (10)	10	LO # 3, 6
	Discussions During Lectures	10	10% (10)	Continuous	ALL
Summative assessment	Midterm Exam (10%)	2 hr	10% (10)	8	LO # All
	Final Exam (50%)	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

توزيع الساعات المجدولة و الغير مجدولة (SWL= SSWL +USWL)

Activity types	Structured SWL	Un structured SWL	No. of weeks	Time Factor	SWL (hr)
Class	32	66	15	2	98
Lab.	32	45	15	2	77
Tutorial					
Self Study		7.40	15		7.40
Quizzes	2		2	30 min.	2
discussions during lectures	5		15	20 min.	5
Projects / Lab.	15	2	15	1 hr.	16
Seminar	2	5	1	15 min.	12
Assignments, Home Work		4	1		4
Report		10	1		10
Midterm Exam (10%)	4		1		4
Final Exam (50%)	4		1		4
		Total SWL (hr/ Semester)			175
		ECTS			7



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