

Course Description Form

1. Course Name:					
Fungi 1					
2. Course Code:					
MYCO136					
3. Semester / Year:					
Year:3end					
4. Description Preparation Date:					
1/2 /2024					
5. Available Attendance Forms:					
My presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 hours / 3.5 units					
7. Course administrator's name (mention all, if more than one name)					
Name: Ali HamoodThanoon Email: dr.alithanoon@uomosul.edu.iq					
Name: Saleh Ahmed Esaa Email: saleh_ahmed@uomosul.edu.iq					
8. Course Objectives					
<p>1- So the student can understand and comprehend what is related to fungi</p> <p>2- The student used knowledge of the importance of fungi and their relationship to the environment.</p> <p>3-Enabling the student to know the fungi that infect local and imported vegetables.</p> <p>4- Especially the student to identify fungal groups of plant diseases.</p> <p>5- Suddenly the student gets to know which groups of fungi are edible and poisonous. applications for outstanding attitudes</p>					
9. Teaching and learning strategies					
<p>1- Interactive lecture</p> <p>2-Brainstorming</p> <p>3- Dialogue and discussion</p> <p>4- Assigning tasks and reports</p> <p>5-Displays of models of plants infected with pathogenic fungi</p>					
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

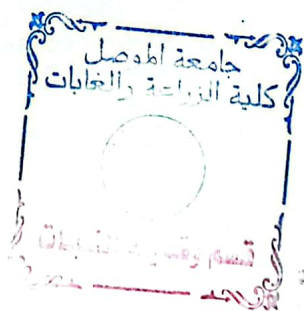
1	Theoretical2	b3: The student explains the concept of fungi and their relationship to plants	Introduction and historical overview of mycology.	Auditory Methods Writing on the board Direct dialogue	Semester exam 1, final exam
	3 practical	a1: The student learns about the methods used in sterilization in the pathology laboratory	Introduction to mycology/sterilization	Assigning tasks and reporting	Short Practical test1 final exam
2	Theoretical2	b1: The student explains the methods of reproduction in fungi and the types of reproductive parts	Methods of reproduction in fungi	Auditory methods Writing style on the blackboard Direct dialogue style	Semester exam 1, final exam
	Practical 3	a1: The student recognizes the different reproductive parts of fungi	Isolation and diagnosis	Assigning tasks and reporting	Short practical test 1 Final test Direct drawing, no penalty microscope
3	Theoretical2	a2: The student is familiar with the methods of nutrition in fungi	Nutrition in fungi	Auditory methods Writing style on the blackboard Direct dialogue style	Semester exam 1, final exam
	Practical 3	b2: Examine the fungus that causes black warts on potatoes	Kingdom of fungi - chytridia / identifying the types of coverage / life cycle of the fungus that causes black wart on potatoes	Assigning tasks and reporting	Short practical test 1 Final test
4	Theoretical2	b3: The student explains the benefits and harms resulting from fungi protoplasm and cytoplasm in the field of zoology	Economic importance of fungi	Auditory methods Writing style on the blackboard Direct dialogue style	Semester test 1, final test



	Practical 3	a3: The student distinguishes which types of fungi are most important	The order Blastocladales / The life cycle of the Allomyces fungus / The phenomenon of alternating generations / The life cycle of the Coelomomyces fungus / The life cycle of the Monoblepharis fungus	Assigning tasks and reporting	Short practical test 1 Final test Life cycle drawing
5	Theoretical2	b4: The student masters the classification of fungi	classification of fungi	Auditory methods Writing style on the blackboard Direct dialogue style	Semester test 1, final test
	Practical 3	a1: The student learns about types of with the aim of classifying them	Making temporary slides of fungi for the purpose of viewing them under a microscope and classifying them	Assigning tasks and reporting	Short practical test 1 Final test



6	Theoretical2	a1: The student learns about the important common fungi belonging to the kingdom of true fungi	The kingdom of fungi, its features and classification	Auditory methods Writing style on the blackboard Direct dialogue style learning	Semester test 1 Final test
	Practical 3	a3: The student distinguishes between the genus Rhizopus and the genus Mucor	Zycomycota division / Life cycle of the Rhizopus fungus / Life cycle of the Mucor fungus	Assigning tasks and reporting	Short practical test 1 Final test Direct drawing And my homework



7	Theoretical2	a1: The student learns about the important common fungi belonging to the kingdom of true fungi,	classification of true fungi	Auditory methods Writing method on the blackboard, direct dialogue method,	Semester test 1 Final test
	Practical 3	a3: The student identifies the Pilobolus hat thrower fungus	Life cycle of the Pilobolus cap fungus	Assigning tasks and reporting	Short practical test 1 Final test
8	Theoretical2	a1: The student learns about the important common fungi belonging to the chytridiomycota	Division of chytridiomycota fungi, their characteristics and classification	Auditory methods Writing style on the blackboard Direct dialogue style	Semester exam 2, final exam
	Practical 3	a3: The student distinguishes the genus Entomophthora	Order Entomophthorales / Life cycle of Entomophthora mushrooms	Assigning tasks and reporting	Short practical test 2 Final test Direct drawing homework
9	Theoretical2	a1: The student learns about the most important common fungi belonging to the class of chytrid fungi understanding the subject of digestion and absorption	chytridiomycota fungi, Its characteristics and the most important ranks belonging to it	Auditory methods Writing style on the blackboard Direct dialogue style	Semester exam 2, Final exam
	Practical 3	a3: The student distinguishes the shapes of Asci in Ascomycota Fungi	Division of Ascomycota / shapes of Asci / types of Asci covers / method of forming Asci / types of fruiting bodies	Assigning tasks and reporting	Short practical test 2 Final test Direct drawing homework
	Theoretical2	a1: The student learns about the important common fungi belonging to the Zygomycota fungi	Division of zygomycota fungi, their classification and features	Auditory methods Writing style on the blackboard Direct dialogue style	Semester test 2 Final test

	Practical 3	a4: The student compares the genus Saccharomyces and the genus Taphrina	Archiascomycetes fungi/ Life cycle of yeast fungi / Methods of reproduction / Life cycle of Taphrina deformans fungi	Assigning tasks and reporting	Short practical test 2 Final test Direct drawing homework
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11	Theoretical2	a2: The student is familiar with the important common fungi in the class of zygotic fungi	zygomycota fungi, their characteristics, and the most important orders to which they belong	Auditory methods Writing style on the blackboard, direct dialogue style	Semester test 2 Final test
	Practical 3	C1: The student is aware of some scientific research on the types of Penicillium fungi and the types that cause powdery mildew	Plectomycetes fungi / The life cycle of the Aspergillus fungus / The life cycle of the Penicillium fungus / The taxonomic key to the genera of powdery mildew / The life cycle of the Erysiphe fungus	Assigning tasks and reporting	Short practical test 2 Final test Direct drawing homework
12	Theoretical2	a7: The student explains the most important characteristics of fungi belonging to the Ascomycota	Ascomycota fungi, their classification features	Auditory methods Writing style on the blackboard Direct dialogue style	Semester test 2 Final test
	Practical 3	b1: The student explains the shapes of the fruiting bodies in sac fungi such as truffles	Aboveground discomycetes fungi / life cycle of the fungus Piziza / underground discomycetes fungi / life cycle of the fungus Terfesia (truffles)	Assigning tasks and reporting	Short practical test 2 Final test Direct drawing homework
13	Theoretical2	b1: The student explains the most important types of common fungi belonging to the Imperfect Fungi section	Subdivision: Imperfect fungi, their characteristics and classification. Coelomycetes classified its characteristics and the most important orders belonging to it	Auditory methods Writing style on the blackboard Direct dialogue style	Semester test 2 Final test
	Practical 3	B2: The student examines the shapes of spores in imperfect fungi according to the Skardo system	Loculoascomycetes fungi / life cycle of apple scab / models of spores according to the Skardo system / life cycle of the fungus	Assigning tasks and reporting	Short practical test 2 Final test Direct drawing homework

			Alternaria		
14	Theoretical2	a4: The student compares the common types of fungi in the Deuteromycotina Fungi	hyphomycetes fungi, Its characteristics and the most important ranks belonging to it.	Auditory methods Writing style on the blackboard Direct dialogue style	Semester test 2 Final test
	Practical 3	c1: The student is aware of fungal infections on plants	Solve the problem	Assigning tasks and reporting	Short practical test 2 Final test
15	Theoretical2	b4: The student masters the thinking skills to identify common fungi in the class of Agonomycetes	Agonomycetes fungi, their characteristics, and the most important orders to which they belong.	Auditory methods Writing style on the blackboard Direct dialogue style	Semester test 2 Final test
	Practical 3	a2: The student is familiar with the fungi that are widespread in the college fields	A field visit to the college's fields and submitting a report on the common fungi spread in the fields	Assigning tasks and reporting	Short practical test 2 Final test Practical report

11. Course Evaluation

	Calendar methods	Evaluation date (one week)	Grade	Relative weight %
1	Report 1	fourth week	2.5	2.5
2	Report 2	The fifth week	2.5	2.5

3	Short test (1) Quiz	the sixth week	2	2
4	Short test (2) Quiz	The fourteenth week	2	2
5	Short test (3) Quiz	The fifteenth week	1	1
6	Semester test (1)	the sixth week	7.5	7.5
7	Semester test (2)	The eleventh week is difficult	7.5	7.5
8	Final theoretical test	Final semester exams	40	40
9	Report 3	The fifteenth week	5	5
10	Homework	The third and fifth week	2	2
11	Practical short test (1) Quiz	The first week	1	1
12	Short practical test (2) Quiz	fourth week	0.5	0.5
13	Short practical test (3) Quiz	The fourteenth week	1	1
14	Live graphics	Weeks 6, 8, 9, 10, 11, 12 and 13	5.5	5.5
15	Final practical test	Final semester exams	20	20
	the total		100	100%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Principles of Mycology - Ali Karim Al-Taie)
Main references (sources)	Lectures prepared by the teacher
Recommended books and references (scientific journals, reports...)	Mycology, An International Journal on Fungal Biology
Electronic References, Websites	Scientific researcher and journals in Mycology

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Theoretical subject teacher : Dr. Ali Hamood Thanoon

Practical subject teacher: Saleh Ahmed Essaa

Head of the Scientific Committee in the Plant Protection Department:

Prof. Dr. Juhayna Idris Muhammad Ali

Department Head: Dr . Firas Kazem Al-Jubouri

