

Course Description Form

1. Course Name:
Fungi 2
2. Course Code:
MYCO320
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
1- So the student can understand and comprehend what is related to fungi 2- The student used knowledge of the importance of fungi and their relationship to the environment. 3-Enabling the student to know the fungi that infect local and imported vegetables. 4- Especially the student to identify fungal groups of plant diseases. 5- Suddenly the student gets to know which groups of fungi are edible and poisonous. applications for outstanding attitudes
9. Teaching and learning strategies
1- Interactive lecture 2-Brainstorming 3- Dialogue and discussion 4- Assigning tasks and reports 5-Displays of models of plants infected with pathogenic fungi



10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	Theoretical 2	b3: The student explains the characteristics of kingdom fungi and their most important divisions	kingdom of Fungi, its characteristics and divisions	Auditory Methods Writing on the board Direct dialogue	Semester exam 1, final exam
	3 practical	a1: The student learns about the shapes and sizes of the asci and fruiting bodies of the types of fungi that cause plant diseases	Describe pyrinomycetes / identify the shapes and sizes of the fruiting bodies	Assigning tasks and reporting	Short Practical test 1 final exam
2	Theoretical 2	b1: The student explains the features of kingdom Fungi section and the most important classes affiliated with it	Ascomycota	Auditory methods Writing style on the blackboard Direct dialogue style	Semester exam 1, final exam
	Practical 3	b2: The student examines the reproductive parts (stone bodies) of different fungal species	Discomycetes fungi / section of discomycetes fruiting body / Shapes and sizes of the asci and fruiting body of the fungus <i>Monlinia fructicola</i> with its life cycle / <i>Sclerotinia sclerotiorum</i> its life cycle	Assigning tasks and reporting	Short practical test 1 Final test Direct drawing, no penalty microscope
3	Theoretical 2	b2: The student is familiar with the characteristics of the class of plectomycetes and the orders belonging to it	Plectomycetes Its characteristics and the most important ranks belonging to it	Auditory methods Writing style on the blackboard Direct dialogue style	Semester exam 1, final exam
	Practical 3	b2: The student examines the Piziza fungi using a microscope	Aboveground discomycetes fungi / life cycle of the Piziza fungus / field visit	Assigning tasks and reporting	Short practical test 1 Final test



4	oretical2	b3: The student explains the characteristics of pyrinomycetes The most important ranks subordinate to it	Pyrinomycetes Its characteristics and the most important ranks belonging to it	Auditory methods Writing style on the blackboard Direct dialogue style	Semester test 1, final test
	Practical 3	a4: The student compares the types of fungal bodies of the most important fungi	The Murchellaeeae family pictures and shapes / The Helveliaceae family pictures and shapes / Subterranean operculum disc fungi / The life cycle of truffles	Assigning tasks and reporting	Short practical test 1 Final test Life cycle drawing
5	oretical2	b4: The student masters the classification of Discomycetes and their most important orders	Discomycetes the most important ranks belonging to it	Auditory methods Writing style on the blackboard Direct dialogue style	Semester test 1, final test
	Practical 3	b2: The student examines the types of spores according to the Skardo system	Discomycetes fungi Its characteristics and the most important ranks belonging to it	Assigning tasks and reporting	Short practical test 1 Final test

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practical test -
 drawing
 network

6	practical2	a1: The student learns about the most important common fungi belonging to the class of Loculoascomycetes	discomycetes fungi Its characteristics and the most important ranks belonging to it	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 Alternaria and the genus Rhizoctonia	Descomycetes fungi / life cycle of apple scab / forms of spores according to the Skardo system	Assigning tasks and reporting	Short practical test 1 Final test Direct drawing And my homework
7	practical2	a1: The student learns about the most important common fungi belonging to the basidiomycete	Basidiomycota	Auditory methods Writing method on the blackboard, direct dialogue method,	Semester test 1 Final test
	Practical 3	a3: The student distinguishes the mechanism of formation of basidium and basidiospores	Basidiomycetes / clamp Conical / Mechanism of formation of Basidium and Basidiospores / Fruiting body, its structure and parts / Field visit	Assigning tasks and reporting	Short practical test 1 Final test
8	practical2	a1: The student learns about the most important common fungi belonging to the class of Hymenozymycetes	Hymenozymycetes Its characteristics	Auditory methods Writing style on the blackboard Direct dialogue style	Semester exam 2, final exam



Practical 3	a3: The student distinguishes the genera belonging to the class Hymenomycetes	basidiomycetes fungi, Hymenomycetes / shapes and pictures of a group of their fungi	Assigning tasks and reporting style	Short practical test 2 Final test Direct drawing homework					
practical2	a1: The student learns about the most important orders of the class of basidiomycetes	The most important orders of the Basidiomycete class	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 Ascomycetes	Basidiomycetes fungi Gastromycetes / shapes and pictures of a group of its fungi / structure of the stem (picture)	Assigning tasks and reporting style	Short practical test 2 Final test Direct drawing homework					
practical2	a1: The student learns about the most important common fungi in the Gasteromycota	Gasteromycetes, 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	b2: The student examines the stages of the life cycle Rust life cycle	Rust fungi / stages of the life cycle of the fungi (diagram) / life cycle of the fungus <i>Puccinia graminis</i>	Assigning tasks and reporting style	Short practical test 2 Final test Direct drawing homework					
practical2	a2: The student is familiar with the most important common fungi in the smut fungi class	Smut 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	b4: The student masters some scientific research on the types of fungi belonging to the smut fungi class	Smut fungus / Life cycle of the <i>Ustilago nuda</i> fungus	Assigning tasks and reporting style	Short practical test 2 Final test Direct drawing homework					

Ustulog nuda

<p>practical2</p>	<p>a7: The student explains the most important characteristics of common fungi from Rust fungi</p>	<p>Uridinomyces fungi, their characteristics, and the most important orders belonging to them</p>	<p>Auditory methods Writing style on the blackboard Direct dialogue style</p>	<p>Semester test 2 Final test</p>
<p>Practical 3</p>	<p>a3: The student distinguishes the shapes of the fruiting bodies of the kingdom of Chromist / the division of oomycetes / an illustration of the phenomenon of internal emergence / the life cycle of the fungus Saprolegnia</p>	<p>The Second Kingdom / The Kingdom of protista / The class of Oomycetes / An illustration of the phenomenon of internal emergence / The life cycle of the Saprolegnia fungus</p>	<p>Assigning tasks and reporting</p>	<p>Short practical test 2 Final test Direct drawing homework</p>
<p>practical2</p>	<p>a4: The student compares the most common fungi belonging to the kingdom of Chromist</p>	<p>The kingdom of protista, its characteristics and its divisions Class: oomycetes</p>	<p>Auditory methods Writing style on the blackboard Direct dialogue style</p>	<p>Semester test 2 Final test</p>
<p>Practical 3</p>	<p>b2: The student examines the shapes of Pythium / the life cycle of the fungus <i>Phytophthora infestans</i> / the shapes of the genera of downy mildew / the life cycle of the fungus <i>Plasmopara viticola</i> / the life cycle of the fungus <i>Albugo candida</i></p>	<p>Order of Peronosporales / Life cycle of the fungus Pythium / Life cycle of the fungus <i>Phytophthora infestans</i> / Forms of downy mildew genera / Life cycle of the fungus <i>Plasmopara viticola</i> / Life cycle of the fungus <i>Albugo candida</i> / Field visit</p>	<p>Assigning tasks and reporting</p>	<p>Short practical test 2 Final test Direct drawing homework</p>
<p>practical2</p>	<p>b4: The student masters thinking skills to identify the most important common fungi belonging to the protozoan kingdom Its attributes and its divisions Department of endoparasitic mold fungi! Its characteristics and importance</p>	<p>Kingdom of protista Plasmodiophoromy mold fungi Its characteristics and importance</p>	<p>Auditory methods Writing style on the blackboard Direct dialogue style</p>	<p>Semester test 2 Final test</p>
<p>Practical 3</p>	<p>b2: The student examines the shapes of the Plasmodium/the shapes of the fruiting bodies</p>	<p>Kingdom of Protista / Illustration of different types of tufts / Illustration of Plasmodium / Shapes of fruiting bodies (illustrations) / Shapes representing the</p>	<p>Assigning tasks and reporting</p>	<p>Short practical test 2 Final test</p>

			paths of development of the fruiting body		
5	practical/2	b4: The student masters the thinking skills to identify common fungi belonging to the real mold fungi section, their characteristics and importance	Myxomycetes, Its characteristics and importance	Auditory methods Writing style on the blackboard Direct dialogue style	Semester test 2 Final test
	Practical 3	b3: The student shows the endoparasitic gelatinous fungus / life cycle of the fungus Plasmodiophora brassica	Myxomycetes/ Life Cycle of the Fungus Plasmodiophora brassica / Acrasiumycota Fungi / Life Cycle of Physarum /	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

Theoretical subject teacher : Dr. Ali Hamood Thanoon



Practical subject teacher: Saleh Ahmed Essaa

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