

## Course Description Form

<b>1. Course Name:</b>					
Forest Diseases					
<b>2. Course Code:</b>					
FODI396					
<b>3. Semester / Year:</b>					
Autumn First Semester / 2024-2025					
<b>4. Description Preparation Date:</b>					
1 / 9 / 2024					
<b>5. Available Attendance Forms:</b>					
Built-in					
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>					
2 Theory + 3 practical / 3.5 units					
<b>7. Course administrator's name (mention all, if more than one name)</b>					
Name: Dr. Raghad Abdel Razzaq Malabidah / theoretical Email: <a href="mailto:raghad_agp@uomosul.edu.iq">raghad_agp@uomosul.edu.iq</a> Name: Muhannad Hamed younis Email: <a href="mailto:Muhannad_Hamed@uomosul.edu.iq">Muhannad_Hamed@uomosul.edu.iq</a>					
<b>8. Course Objectives</b>					
<b>Theory :</b> - Developing the student's ability to deal with scientific and technical means - Developing the student's ability to deal with the Internet - Developing the student's ability to deal with multiple media. - Developing the student's ability to dialogue and discuss Developing the student's ability to deal economically in the field the job.			<b>Practical :</b> -Developing the student's ability to deal with multi media. - Developing the student's ability to dialogue and discuss		
<b>9. Teaching and Learning Strategies</b>					
<b>Strategy</b>		-Interactive lecture, Brainstorming, - Dialogue and discussion, - Assigning tasks and reporting - Assigning group work to reveal leadership skills			
<b>10. Course Structure</b>					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2Theory	A1 : A1 Memorizes definitions of plant pathology and forest diseases ) definition plant pathology( Knows the historical stages ) explain the historical stages of forest pathology( Lists the scientists of the modern stage ) I	The importance history of plant diseases	Theory : -Auditory metho -Style of writing on The blackboard -Direct dialogue	Exams, Homework,  Short practical test





		nutrient medium, explain the method of damaging the PDA medium			
4	2Theory  3 Pract	Theory: A4 :Explains the stages of p disease development ) mention the stage pollination and examples of it  A4: Identifying and isolating fungi (how isolate fungi from roots and soil(	Theory: Stages of plant Disease Development  Theory: Isolation of pathogens	Theory : -Auditory metho -Style of writing on The blackboard -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
5	2Theory  3 Pract	Theory: A5: Classify the types of plant resistance to pathogens ) mention definitions of the types of resistance (  A5: Explains the symptoms of the disease (explain the apparent symptoms, identify the visible signs of root rot(	Theory Plant defenses types of p resistance  Symptoms and si of the disease	Theory : -Auditory metho -Style of writing on The blackboard -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
6	2Theory  3 Pract	Theory: A6 : :Discusses the environmental factors affecting pathogens ) give examples of the division of pathogens according to temperature( Discusses the environmental factors affecting pathogens ) give examples of the division of pathogens according to humidity requirements( Discusses the environmental factors affecting pathogens ) give examples of the division of pathogens according to humidity requirements(  A6: Explains wood rot (define wood rot, distinguish between types of wood rot(	Environmental factors affecting infection  Wood rot	Theory : -Auditory metho -Style of writing on The blackboard -Direct dialogue Style  Practical : Assigning tasks and reports	Exams, Homework, Reports
7	2Theory	Theory: A7 :Lists the methods of pathogen resistance ) Explain the methods of legislative resistance( Knows the physical methods to	Theory: Methods of controlling plant diseases and fores diseases	Theory : -Auditory metho -Style of writing on The blackboard	Exams, Homework, Reports

	3 Pract	combat plant diseases ) mention methods sterilization using moist heat( Knows chemical methods of resistance to plant diseases ) mention methods of resistance with pesticides and their types( A7 Identify some of the apparent symptoms in the field) distinguish the type of disease( :	A field tour to learn about some apparent diseases:	-Direct dialogue style Practical : Assigning tasks and reports	
8	2Theory  3 Pract	Theory: A8 :Mention biological methods for disease resistance ) explain\ the crop rotation method for control( A8 Diagnosis of fungi (identify cystic fungi, identify the type of fungi	Theory: Methods controlling plant diseases forest diseases  Diseases caused by fungi	Theory : -Auditory method -Style of writing on The blackboard -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
9	2Theory  3 Pract	Theory: B2 :Familiarity with oomycete diseases ) give examples of root rot diseases of forest seedlings( He is familiar with oomycete diseases ) give examples of root rot diseases of forest seedlings He is familiar with oomycete diseases mention an example of pythemic root rot its pathogen B1 Diseases caused by basidiomycetes and immature fungi The microscope is used to examine imperfect and basidiophilic fungi	Theory: Division of plant diseases /oomycetes  Diseases caused by fungi	Theory : -Auditory method -Style of writing on The blackboard -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
10	2Theory  3 Pract	Theory: B2 :Familiarity with oomycete diseases ) give examples of root rot diseases of forest seedlings( He is familiar with oomycete diseases ) give examples of root rot diseases of forest seedlings He is familiar with oomycete diseases ) mention an example of pythium root rot its pathogen C1 Is aware of the most important mycorrhizal fungi (what are the characteristics of mycorrhizal fungi(	Theory: Division of plant diseases  Mycorrhizal fungi	Theory : -Auditory method -Style of writing on The blackboard -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports



11	2Theory  3 Pract	<p>Theory: C1 :Caused by chestnut blight ) mention the scientific name of the cause of chestnut blight( The disease is known as nectar ulceration mention the scientific name of the cause of nectar ulceration</p> <p>C2 Differentiating between bacteria (bacteria what are the types of bacteria</p>	<p>Theory: Division plant diseases</p> <p>Bacterial disease</p>	<p>Theory : -Auditory method -Style of writing on The blackboard -Direct dialogue style Practical : Assigning tasks and report</p>	Exams, Homework, Reports
12	2Theory  3 Pract	<p>Theory: C2 :Known for basidiomycete fungal diseases on forest trees ) mention an example of basidiomycete disease on forest trees He is familiar with tree root rot disease ) mention the scientific name of the cause of root rot :Armillaria</p> <p>D1 Distinguish between types of viruses (identify viruses, what are the types of viruses(</p>	<p>Theory: Division plant diseases</p> <p>Viral diseases</p>	<p>Theory : -Auditory method -Style of writing on The blackboard -Direct dialogue style Practical : Assigning tasks and reports</p>	Exams, Homework, Reports
13	2Theory  3 Pract	<p>Theory: D1 :Knows viral diseases ) mention the scientific name of fig mosaic disease and type of pathogen</p> <p>E1 Learn about nematodes (know nematodes, what is the life cycle of fungal worms</p>	<p>Theory: Bacterial viral diseases nematodes parasitic</p> <p>Nematodes</p>	<p>Theory : -Auditory method -Style of writing on The blackboard -Direct dialogue style Practical : Assigning tasks and reports</p>	Exams, Homework, Reports
14	2Theory  3 Pract	<p>Theory: D2 :Known as flowering plants parasitize trees ) as an example of the catalpa bear and the pine hawk.( Known as flowering plants that parasitize trees ) as an example of mistletoe of forest trees.(</p> <p>E2</p>	<p>Theory: Parasitic plants on forest trees</p>	<p>Theory : -Auditory method -Style of writing on The blackboard -Direct dialogue style Practical :</p>	Exams, Homework, Reports



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11. Course Evaluation				
	Evaluation Methods	Evaluation Date	Degree	Relative weight %
	Final report theory + pract. Report	Theory 15 weeks Pract. 1-15 week	7 Theory + 6 pract.	% 13
	Short exam (1)	Week (3)	4 Theory + 2 pract.	% 6
	Half exam ( theory + pract.)	Week (9)	10 Theory + 5 pract.	% 15
	Short exam (2)	Week (12)	4 Theory + 2 pract.	% 6
	Final exam (practical)	Exam pract.	20	% 20
	Final exam (theory)	Exam theory	40	% 40
			100	% 100

<p>12. Learning and Teaching Resources</p> <p>Required textbooks (curricular books, if any)</p>	<p>LECTURES OF PLANTS DISEASES AND FORE</p> <p>PATHOLOGY</p>
<p>Main references (sources)</p>	<p>Forest pathology , Boyce , 1960          Guide of field and factory in forest diseases          Almaleh etc , 1993</p>

Recommended books and references (scientific journals, reports...)	Phytopathology
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Teacher of Theory : Dr. Raghad Abdel Razzaq Malabidhan

Teacher of Practical : Mohanned hamed younes

Chairman of the Scientific Committee : Dr. mohammed younes al – alaf

Head of the Dept. of Forestry Sciences:Dr. Mozahim Younes Said

