Course Description Form

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	ourse Na	ame:					
	Diseases						
	Course C	Code:					
FODI39		113					
	Semester	The Control of the Co					
		mester / 2024-2025					
4.	Descript	on Preparation Date:					
1/9/2	024			4			
		e Attendance Forms:					
	Built-in	السم علوم الف					
6.	Number	of Credit Hours (Total) / Number of	of Unit	s (Total)			
	2 Theory	+ 3 practical / 3.5 units					
7.	Course a	dministrator's name (mention all, i	f more	than one name)			
		r. Raghad Abdel Razzaq Malabida	h / the	oretical			
		nghad_agp@uomosul.edu.iq					
		1uhannad Hamed younis					
	Email: <u>N</u>	<u> 1uhannad_Hamed@uomosul.edu.io</u>	1				
8.	Course	Objectives					
Theory			Pra	Practical: -Developing the student's ability to deal with multi media Developing the student's ability to dialogue and			
- Devel	oping the	e student's ability to deal with	-D				
scientif	ic and te	chnical means	me				
- Devel	oping the	e student's ability to deal with the	- D				
Interne	t		dis	discuss			
- Devel	oping the	e student's ability to deal with					
multi	ple media	a.					
		e student's ability to dialogue and					
discuss	5						
Devel	oping the	e student's ability to deal					
econom	ically in	the field the job.					
0	Teachir	ng and Learning Strategies					
Strateg		-Interactive lecture, Brainstorming					
Strateg	y	- Dialogue and discussion,	,				
		- Assigning tasks and reporting					
		- Assigning group work to reveal	eaders	hin skills			
10 0	ourse S	tructure	caucis	шр экшэ			
				TT	T	Evelvetion	
Week	Hours	Required Learning Outcomes		Unit or subject name	Learning method	Evaluation method	
1	2Theory			The importance	Theory:	Exams,	
		pathology and forest diseases) det	finition	history of	-Auditory metho	Homework,	
		plant pathology(olin Alee	plant diseases	-Style of		
		Knows the historical stages) explain the			writing on	Short practica	

historical stages of forest pathology(

Lists the scientists of the modern stage) l

test

The blackboard -Direct dialogue

	3 Pract.	the scientists of the modern stage of plant and forest diseases Al Learn about plant pathology (define plant disease ,what are the direct losses of the disease.)	Identify plant disease	style Practical : Assigning tasks and reports	
2	2Theory 3 Pract	Theory: A2 Knows the losses of plant diseases)describe the losses of plant diseases(Preserves direct plant disease losses) mention direct plant disease losses It saves losses from indirect plant diseases mention the losses from indirect plant diseases(Classify prokaryotic pathogens) give examples of prokaryotic pathogens Familiar with the causes of plant diseases give examples of the causes of plant disea (He is familiar with the ways of living of pathogens) classify the causes according the ways of living(A2: Plant pathology laboratory	Theory: Losses from plant diseases forest diseases Familiar with	Theory: -Auditory methor-Style of writing on The blackboard -Direct dialogue style Practical: Assigning tasks and reports	Exams, Homework, Reports
	3 Pract	numbers	how to set up a laboratory (what are the descriptions of a typical laboratory, definition of microscope(
3	2Theory 3 Pract	Theory: :A3: Classify prokaryotic pathogens) give examples of prokaryotic pathogens Familiar with the causes of plant diseases) give examples of the causes of plant diseases(He is familiar with the ways of living of pathogens) classify the causes according to the ways of living(Theory: Casual agents Types of food environments	Theory: -Auditory methods, -Style of writing on The black boardDirect dialogue style Practical: Assigning tasks and reports	Exams, Homework, Reports
		Recognizes the culture media (define the			

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		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 methor-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 methor-Style of writing on The blackboard-Direct dialogue style	Exams, Homework, Reports
6	2Theory	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	Theory: -Auditory methorstyle of writing on The blackboard -Direct dialogue Style Practical:	Exams, Homework, Reports
		alstinguish setween types of wood for	Wood rot	Assigning tasks and 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	Reports

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	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 methoral -Style of writing on The blackboard -Direct dialogue style Practical: Assigning tasks and reports	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 pythmic root rot its pathogen B1	Theory: Division of plant diseases /oomycetes	Theory: -Auditory methoral -Style of writing on The blackboard -Direct dialogue style Practical: Assigning tasks and reports	Exams, Homework, Reports
		Diseases caused by basidiomycetes and immature fungi The microscope is used to examine imperfect and basidiophilic fung	Diseases caused fungi		i
10	2Theory	Theory: B2 :Familiarity with oomycete diseases) give examples of root rot diseases of fores 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 a its pathogen	Theory: Division plant diseases	Theory: -Auditory methor-Style of writing on The blackboard-Direct dialogue style Practical: Assigning tasks and reports	Reports
	3 Pract	C1 Is aware of the most important mycorrhizal fungi (what are the characteristics of mycorrhizal fungi)	Mycorrhizal fungi	امعة الموصل التراعة والتعابات الم	المارية المارية المارية

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1.1	2Theory	Theory: C1	Theory: Division	Theory:	Exams,
11	3 Pract	: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 C2 Differentiating between bacteria (bacteria what are the types of bacteria	plant diseases	-Auditory metho -Style of writing on The blackboard -Direct dialogue style Practical: Assigning tasks and report	
d de e f r		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	Theory: Division of plant diseases	Theory: -Auditory methor-Style of writing on The blackboard -Direct dialogue style Practical: Assigning tasks and reports	Exams, Homework, Reports
	3 Pract	Distinguish between types of viruses (identify viruses, what are the types of viruses)	Viral diseases		
13	2Theory 3 Pract	Theory: D1 :Knows viral diseases) mention the scientific name of fig mosaic disease and type of pathogen E1		-Auditory methor-Style of writing on The blackboard -Direct dialogue style	Exams, Homework, Reports
		Learn about nematodes (know nematodes, what is the life cycle of fungal worms	Nematodes	Practical: Assigning tasks and reports	
14	2Theory	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 t mistletoe of forest trees. (Theory: Parasitic plants on forest trees	Theory: -Auditory methory: -Style of writing on The blackboard -Direct dialogue	Reports
	3 Pract	E2		style Practical:	

		A scientific visit observe patholo		1	Field observation field visits	Assigning tasks and reports	
15	2Theory 3 Pract	Theory: D3 :Kr deteriorate wood of white rot fung Restores wood d fungi) mentio fungi(Remembers the deteriorate wood rot fungi(List the fungi the deteriorate wood of dry rot fungic Provides a list deteriorate wood stain fungi(E3 Differentiating to nursery diseases differences between the control of t	d) give examing gi(lecay and detent the name e funging that d) mention of the distribution of the funging distribution and the function and t	ples erioration for brown at decay arexamples of he names that decay name for	Theory: WOOD DEGREDATION Forest nursery diseases	Theory: -Auditory methor-Style of writing on The blackboard-Direct dialogue style Practical: Assigning tasks and reports	Reports
11. 0	Course Evalu	ation					
	Evaluation M	1ethods	Evaluation	Date	Degree		Relative weight %
	Final report Report	theory + pract.	Theory 15 weeks Pract. 1-15 week		7 Theory + 6 pract.		% 13
5	Short exam (1)	Week (3)		4 Theory + 2 pract.		% 6
I	Half exam (t	heory + pract.)	Week (9)		10 Theory + 5 pract.		% 15
	Short exam (2)	Week (12)		4 Theory + 2 pract.		% 6
	Final exam (J		Exam pract.		20		% 20
	Final exam (1	theory)	Exam theo	ry	100		% 40 % 100
12. I	Learning and red textbooks	Teaching Resour	rces s, if any)	LECTURES	S OF PLANT	S DISEASES	AND FORE
				PATHOLO	UΥ		
Main references (sources)				ology , Boyce , 196 eld and factory in fo c , 1993			
						امعة الموصل الأ الزراجة والخابات ا	45

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Recommended books and references (scientific journals, reports...)

Phytopathology

Teacher of Theory: Dr. Raghad Abdel Razzaq Malabidah

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

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