Course Description Form

1. Course Name:

Forest Diseases

2. Course Code:

FODI396

3. Semester / Year:

Autumn First Semester / 2023-2024

4. Description Preparation Date:

1/9/2023

5. Available Attendance Forms:

Attendance

6. Number of Credit Hours (Total) / Number of Units (Total)

2 Theory + 3 practical / 3.5 units

7. Course administrator's name (mention all, if more than one name)

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8. Course Objectives

Theory:

- 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.

Practical:

- -Developing the student's ability to deal with multi media.
- Developing the student's ability to dialogue and discuss

9. Teaching and Learning Strategies

Strategy

-Interactive lecture, Brainstorming,

- Dialogue and discussion,
- Assigning tasks and reporting
- Assigning group work to reveal leadership skills

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or	Learning	Evaluation
			subject name	method	method
1	2Theory	A1 : A1 Memorizes definitions of plant	The importance	Theory:	Exams,
		pathology and forest diseases) definition	history of	-Auditory metho	Homework,
		plant pathology(plant diseases	-Style of	·
		Knows the historical stages) explain the		writing on	Short practica
		historical stages of forest pathology(The blackboard	test
		Lists the scientists of the modern stage) l		-Direct dialogue	CSt
		the scientists of the modern stage of plant		style	
		and forest diseases		Practical:	
				Assigning tasks	
	3 Pract.	A1		and reports	

		Learn about plant pathology (define plant disease what are the direct losses of the disease.(Identify plant disease		
2	2Theory	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(Theory: Losses from plant diseases forest diseases	Theory: -Auditory metho -Style of writing on The blackboard -Direct dialogue style Practical: Assigning tasks and reports	Exams, Homework, Reports
	3 Pract	A2 : Plant pathology laboratory numbers	Familiar with 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(Recognizes the culture media (define the nutrient medium, explain the method of damaging the PDA medium	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

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				mi.	
4	2Theory	Theory: A4 :Explains the stages of p disease development) mention the stage pollination and examples of it	•	Theory: -Auditory metho -Style of writing on	Exams, Homework, Reports
	3 Pract	A4: Identifying and isolating fungi (how isolate fungi from roots and soil(Theory: Isolation of pathogens	The blackboard -Direct dialogue style Practical: Assigning tasks and reports	
5	2Theory	Theory: A5: Classify the types of plant resistance to pathogens) mention definitions of the types of resistance (Theory Plant defenses types of p resistance	Theory: -Auditory metho -Style of writing on The blackboard -Direct dialogue style	Exams, Homework, Reports
	3 Pract	A5: Explains the symptoms of the disease (explain the apparent symptoms, identify the visible signs of root rot(Symptoms and si of the disease	Practical: Assigning tasks and 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:	Environmental factors affecting infection	Theory: -Auditory metho -Style of writing on The blackboard -Direct dialogue Style	Exams, Homework, Reports
		Explains wood rot (define wood rot, distinguish between types of wood rot(Wood rot	Practical: 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 combat plant diseases) mention methods sterilization using moist heat(Knows chemical methods of	Theory: Methods of controlling plant diseases and fores diseases	Theory: -Auditory methorship of writing on The blackboard -Direct dialogue style Practical: Assigning tasks	Exams, Homework, Reports

		resistance to plant diseases		and reports	
	3 Pract) 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:	- AF	
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 methor-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 pythmic root rot its pathogen B1	Theory: Division of plant diseases /oomycetes	Theory: -Auditory methor-Style of writing on The blackboard -Direct dialogue style Practical: Assigning tasks and reports	Exams, Homework, Reports
	3 Truct	Diseases caused by basidiomycetes and immature fungi The microscope is used to examine imperfect and basidiophilic fung			
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	Exams, Homework, Reports
	3 Pract	C1 Is aware of the most important mycorrhizal fungi (what are the characteristics of mycorrhizal fungi)	Mycorrhizal fungi		

11	2Theory 3 Pract	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 C2 Differentiating between bacteria (bacteria what are the types of bacteria	diseases	Theory: -Auditory methor-Style of writing on The blackboard-Direct dialogue style Practical: Assigning tasks and report	Exams, Homework, Reports
12	2Theory 3 Pract	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 D1 Distinguish between types of viruses (identify viruses, what are the types of viruses)	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
		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 Learn about nematodes (know nematodes, what is the life cycle of fungal worms	Theory: Bacterial viral disea nematodes parasitic Nematodes	Theory: -Auditory methor-Style of writing on The blackboard -Direct dialogue style Practical: Assigning tasks and reports	Exams, Homework, Reports
14	2Theory 3 Pract	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 timistletoe of forest trees. (E2 A scientific visit to learn about and observe pathological infections	Theory: Parasitic plants on forest trees Field observation field visits	Theory: -Auditory methor-Style of writing on The blackboard -Direct dialogue style Practical: Assigning tasks and reports	Exams, Homework, Reports

15	2Theory Theory: D3 :Know the fung			gi that decay	Theory:		Theory:	Exams,	
	deteriorate wood) give exam				WOOD		-Auditory metho		
	of white rot fungi(-	DEGREI	DATION	-Style of	Reports	
	Restores wood decay and de			terioration			writing on	Reports	
	fungi) mention the name						The blackboard		
			fungi(-Direct dialogue	
				e fungi th	fungi that decay ar			style	
			deteriorate woo					Practical:	
			rot fungi(,	1			Assigning tasks	
			List the fungi th	at decay and				and reports	
			deteriorate woo	•				1	
			of dry rot fungi						
			Provides a list		that decay				
			deteriorate wood						
			stain fungi(,					
		3 Pract	E3						
			Differentiating b	oetween fore	st				
			nursery diseases			Forest nursery diseases			
			differences bety		ery				
			mildew and dov	•					
				,					
11.	Cou	ırse Evalua	ation						
	Ev	aluation M	lethods	Evaluation	Date	Degre	ee	F	Relative weight
								Ç	%
	Fir		theory + pract.	Theory 15		7 The	•		% 15
		Report		Pract. 1-15	Pract. 1-15 week		ct.		
	Sho	ort exam (1	1)	Week (3)		4 The	ory +		% ٦
						2 prac			
	Hal	lf exam (tl	heory + pract.)	Week (9)			eory +		% 10
						5 prac	ct.		
	Sho	ort exam (2	<u>———</u> 2)	Week (12)		4 The	ory +		% ₹
						2 prac	ct.		
	Fin	al exam (p	tam (practical) Exam pra		t.	20			% Y ·
				Exam theo				% ۥ	
						100			% 1
12.	Lea	rning and	Teaching Resour	ces					
Requ	iired	textbooks	(curricular books	s, if any)	LECTURES	OF	PLANTS	DISEASES	AND FORI
				PATHOLOG	GY				
Main	Main references (sources)		Forest pathology, Boyce, 1960						
					Guide of field and factory in forest diseases				
				Almaleh etc , 1993					
Reco	mme	ended bool	ks and references	s (scientific	Phytopathology				
	journals, reports)			- 1	~·				
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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