

Course Description Form

1. Course Name: Fruit tree diseases

2. Course Code: FRPA422

3. Semester / Year: Second semester/fourth stage

4. Description Preparation Date: 1/2/2024

5. Available Attendance Forms: Attendance

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)

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8. Course Objectives

- Introduce students to the most common fruit diseases that affect fruit crops, and identify their symptoms and factors of spread.
- Provide an understanding of the basic biology and ecology of fruit diseases, including environmental factors that influence the growth of fungi and pathogenic bacteria.
- Students learned to diagnose fruit diseases and analyze their causative factors through appropriate laboratory and field tests.
- Study means and methods of biological and chemical prevention and control of fruit diseases, including the use of fungicides and bacteria and advanced agricultural techniques.
- Analyze the economic and environmental impacts of fruit diseases, and study sustainable and preventive management methods to reduce their impact.
- Enhancing students' skills in planning and implementing field experiments and scientific studies to treat and control fruit diseases.
- Encouraging students to interact with recent literature and research in the field of fruit diseases and contribute to developing innovative and effective solutions to address current challenges in this field.

9. Teaching and Learning Strategies

Brainstorming Teamwork Discussion
Discovery learning Problem solving or problem-based learning
E-Learning



10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 Theoretic	a1 Definition of fruit tree diseases. The economic role of diseases. Causes of fruit tree diseases	Fruit tree diseases, its definition and the importance of studying it	Interactive lecture, brains dialogue and discussion, self-	Semester exam 1, exam
	3 practical	b1 Isolation from fruit tree leaves, fruits and roots Use precautions when handling pathogenic microorganisms	Causes of fruit tree diseases	Interactive lecture, brains dialogue and discussion, self-	
2	2 Theoretic	a1 Fungal and bacterial causes, caecilians, viral causes, living causes	Identify the most important diseases	Interactive lecture, brains dialogue and discussion, self-	Semester exam 1, exam
	3 practical	b2 Examining samples of leaves, fruits and roots of plants identifying the best means of control	symptoms, life cycle, and means of controlling citrus disease causes	Interactive lecture, brains dialogue and discussion, self-	
3	2 Theoretic	a2 Diseases caused by fungi, caecilians, viruses, and deficiency diseases Enhancing students' ability to use computers and the Internet	Citrus tree diseases	Interactive lecture, brains dialogue and discussion, self-	Semester exam 1, exam
	3 practical	b2 Identifying the most important symptoms and the life cycle of controlling citrus disease pathogens, examining samples of the leaves, fruits and roots of the plant, and identifying means of control	Citrus tree diseases	Interactive lecture, brains dialogue and discussion, self-	
4	2 Theoretic	a2 Diseases caused by fungi, caecilians, viruses, and deficiency diseases	Diseases of pistachio trees	Interactive lecture, brains dialogue and discussion, self-	Semester test 1, final report
	3 practical	b2 Identify the most important symptoms and the life cycle of control for pistachio disease pathogens, examine samples of leaves, fruits and roots of the plant, and learn about the best control	Diseases of pistachio trees	Interactive lecture, brains dialogue and discussion, self-	
5	2 Theoretic	a2 Diseases caused by fungi, caecilians, viruses, and deficiency diseases of peach and apricot trees	stone-stone tree diseases	Interactive lecture, brains dialogue and discussion, self-	Semester test 1, final report
	3 practical	b2 Identifying the most important symptoms and the life cycle of controlling the pathogens of stone-stone tree examining samples of the leaves, fruits and roots of the plant, and identifying the best means of control.	stone-stone tree diseases	Interactive lecture, brains dialogue and discussion, self-	
6	2 Theoretic	a2 Diseases caused by fungi, caecilians, viruses, and deficiency diseases	Apple tree diseases	Interactive lecture, brains dialogue and discussion, self-	Short test, final test
	3 practical	b2 Identifying the most important symptoms and the life cycle of controlling apple disease pathogens, examining samples of the leaves, fruits and roots of the plant, and identifying means of control viruses, and nutrient deficiency diseases	Apple tree diseases	Interactive lecture, brains dialogue and discussion, self-	
7	2 Theoretic	a2 Identifying the most important symptoms and the life cycle of controlling fig disease pathogens, examining samples of the leaves, fruits and roots of the plant, and identifying the best means of control	Grape tree diseases	Interactive lecture, brains dialogue and discussion, self-	Semester exam 2, exam
	3 practical	B2 Diseases caused by fungi, caecilians, viruses, and deficiency diseases Identifying the most important symptoms, life cycle, methods of controlling pomegranate disease pathogens, examining samples of the leaves, fruits and roots of the plant, and identifying the best means of control	Grape tree diseases	Interactive lecture, brains dialogue and discussion, self-	
8	2 Theoretic	a2 Diseases caused by fungi, caecilians, viruses, and deficiency diseases	Olive tree tree diseases	Interactive lecture, brains dialogue and discussion, self-	Semester exam 2, exam
	3 practical	b2 Identifying the most important symptoms and the life cycle of controlling olive disease pathogens, examining samples of the leaves, fruits and roots of the plant, and identifying the best means of control.	Olive tree tree diseases	Interactive lecture, brains dialogue and discussion, self-	
9	2 Theoretic	a2 Diseases caused by fungi, caecilians, viruses, and deficiency diseases	Fig tree tree diseases	Interactive lecture, brains dialogue and discussion, self-	Semester exam 2, exam
	3 practical	b2 Identifying the most important symptoms and the life cycle of controlling Fig disease pathogens, examining samples of the leaves, fruits and roots of the plant, and identifying the best means of control.	Fig tree tree diseases	Interactive lecture, brains dialogue and discussion, self-	
10	2 Theoretic	a2 Diseases caused by fungi, caecilians, viruses, and deficiency diseases	Diseases of pomegranate trees	Interactive lecture, brains dialogue and discussion, self-	Semester test2
	3 practical	b2 Identifying the most important symptoms and the life cycle of controlling pomegranate disease pathogens, examining samples of the leaves, fruits and roots of the plant, and identifying the best means of control.	Diseases of pomegranate trees	Interactive lecture, brains dialogue and discussion, self-	
11	2 Theoretic	a2 Diseases caused by fungi, caecilians, viruses, and deficiency diseases	Palm tree diseases	Interactive lecture, brains dialogue and discussion, self-	Final test
	3 practical	b2 Identifying the most important symptoms and the life cycle of controlling Palm disease pathogens, examining samples of the leaves, fruits and roots of the plant, and identifying means of control	Palm tree diseases	Interactive lecture, brains dialogue and discussion, self-	
12	2 Theoretic	a2 Diseases caused by fungi, caecilians, viruses, and deficiency diseases	Diseases of fruit tree nurseries	Interactive lecture, brains dialogue and discussion, self-	Final test
	3 practical	b2 Identifying the most important symptoms and life cycle of controlling pathogens of nursery diseases, examining samples of leaves, fruits and roots of plants, and identifying the best means of control	Diseases of fruit tree nurseries	Interactive lecture, brains dialogue and discussion, self-	
14	2 Theoretic	d2 Training on management skills and presentation of topics related to fruit tree diseases	Report and discussion	Interactive lecture, brains dialogue and discussion, self-	a report
	3 practical	d2 runs discussion panels on the economic importance of fruit tree diseases	Report and discussion	Interactive lecture, brains dialogue and discussion, self-	
15	2 Theoretic	e1 Field visit to fruit tree nurseries	Solve the problem	Interactive lecture, brains dialogue and discussion, self-	a report
	3 practical	e1 Practical applications of means of controlling fruit tree diseases	Solve the problem	Interactive lecture, brains dialogue and discussion, self-	

11. Course Evaluation

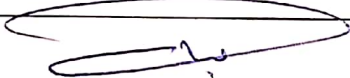
Calendar methods	date	mark	weight
Short test (1) Quiz	the sixth week	2	2
Short test (2) Quiz	The fourteenth week	2	2


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Semester test (1)	the sixth week	10	10
Semester test (2)	The eleventh week is difficult	10	10
Final theoretical test	Final semester exams	40	40
Report and discussion	The fifteenth week	5	5
Report and discussion	The third and fifth week	5	5
Short practical test (1) Quiz	The first week	2	2
Short practical test (2) Quiz	fourth week	2	2
Short practical test (3) Quiz	The fourteenth week	2	2
Final practical test	Final semester exams	20	20
the total	100	100	%100

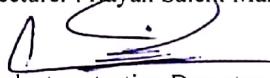
12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Plant Diseases, George Agrios, translated by Mah Musa Abu Arqoub. Academic library.
Recommended books and references (scientific journals, reports...)	S.A.M.H. Naqvi (2006) Diseases of Fruits and Vegetables Diagnosis and Management Volume I Randy C. Ploetz (2003) Diseases of Tropical Fruit Crops
Electronic References, Websites	1 https://www.apsnet.org/Pages/default.aspx 2- https://www.google.com/?hl=ar


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