



Jordan University of Science and Technology
Faculty of Agriculture
Plant Production Department

PP442 Diseases Of Horticultural Crops

First Semester 2023-2024

Course Catalog

3 Credit Hours. Etiology, epidemiology and management of horticultural crop diseases of economic importance in Jordan. Diseases caused by fungi, oomycetes, bacteria, viruses and nematodes will be discussed in addition to abiotic diseases and physiological disorders.

Text Book

Title	Vegetable Diseases. A Colour Handbook. 448 Pages
Author(s)	Steven T. Koike, Peter Gladders, and Albert Paulus.
Edition	1st Edition
Short Name	Ref # 1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref # 2	Diseases of Fruit Crops in Australia. Colour illustrations.	Tony Cooke, Denis Persley, Susan House	1st Edition	
Ref # 3	Diseases of Tropical Fruit Crops.	Ploetz, R.	1st Edition	
Ref # 4	Compendium of plant diseases series, American phytopathological society	Many authors	2nd Edition	

Instructor

Name	Dr. Firas Abu El Samen
Office Location	C4L2
Office Hours	

Email	hiasat@just.edu.jo
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Class Schedule & Room

Section 1:
Lecture Time: Mon, Wed : 13:00 - 14:00
Room: C2006

Prerequisites

Line Number	Course Name	Prerequisite Type
623430	PP343 Plant Pathology	Prerequisite / Pass

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction to the course and importance of plant diseases in horticultural crops.	From Ref # 1 , From Ref # 2 , From Ref # 3 , From Ref # 4
Weeks 2, 3	Diseases of The Solanaceae crops (Tomato, Pepper, and Eggplants) and their mangement	From Ref # 1
Weeks 3, 4	Diseases of Cuburbit crops (Cucumber, Melon, Watermelon and Squash) and their mangement	From Ref # 1
Weeks 4, 5	Potato Diseases and their mangement	From Ref # 1
Week 6	Diseases of Cruciferous Vegetables (Cabbage Cauliflower, Radishes) and their mangement	From Ref # 1 , From Ref # 4
Week 6	Diseases of lettuce and thier management	From Ref # 1 , From Ref # 4
Weeks 7, 8	Diseases of stone fruits and their management	From Ref # 2 , From Ref # 3
Week 9	Diseases pome fruits and their management	From Ref # 2 , From Ref # 4
Week 10	Disease of citrus crops and their management	From Ref # 2 , From Ref # 4

Week 11	Diseases of grapes and their management	From Ref # 2, From Ref # 4
Week 12	Diseases of olives and their management	From Ref # 2
Week 13	Diseases of banana and date palms and their management	From Ref # 2, From Ref # 3, From Ref # 4

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Recognize the fundamental importance of plant disease management in horticultural crops. [20PLO1, 80PLO4]	10%	
Recognize the symptoms, signs and the causal agents, of numerous horticultural crops diseases caused by biotic and abiotic factors. [100PLO5]	25%	
Assess environmental, biological, genetic and cultural factors influencing plant disease development in horticultural crops [100PLO4]	20%	
Understand the epidemiology of horticultural plant diseases [50PLO4, 50PLO6]	15%	
Appraise different methods available to manage or control plant diseases, and design an appropriate integrated disease management strategies. [50PLO4, 50PLO6]	20%	
Improve the written and oral communication skills of students through class, group, and individual projects. [100PLO7]	10%	

Relationship to Program Student Outcomes (Out of 100%)						
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
2			45.5	25	17.5	10

Evaluation	
Assessment Tool	Weight
Final exam	40%
First exam	25%
second exam	25%
sample collection and lab work	10%

Policy

Attendance of the course	All students are expected to attend every class meeting, scheduled lectures, online activities, and exams on time. Attendance will be taken at all lectures. Failure to attend can result in a student being dismissed from the course with a failure score (F) if the absent percentage exceeded 20% of the total number of lectures in the semester. Students who miss any lecture are personally responsible for learning any missed materials or assignments, either from their classmates or from the course eLearning site. Two tardy arrivals will count as one absence.
Examination	First, second and final examinations must be given at the time specified by admission and registration unit in the university. This applies for all examinations, whether an on-campus or an online exam. No changes in examination dates. No make-up examinations except with official medical reports approved by the dean of the faculty of agriculture. The instructor can verify the identity of the students in the exam room by requesting student university ID. If a student is unavoidably absent from any examination, university regulations will be applied. Graded exams will be given back to students and the questions will be answered and discussed with the students in class or online.
Cheating, Plagiarism and Academic Dishonesty	Any student who attempts to cheat will be asked to hand over the exam immediately and will be reported to the department head. The case will be handled in accordance with the university's regulations, which include disciplinary penalties as well as the possibility of failure in the course and/or dismissal from the University. Students are expected to complete their assignments themselves. Any kind of plagiarism is prohibited. The university's regulations also apply if there is academic dishonesty and plagiarism of assignment during the course.
Class participation	Participating in classroom discussion, online discussions, or any type of collaborating in various forms such as forming study groups, helping your classmate with studying are highly encouraged. A student who actively participates in class discussion may receive up to 5% bonus added to the final grade.
Electronic devices	Electronic devices of any kind (smartphones, tablets, or laptops) must be turned off (without vibration or even silent mode), they should not be seen in the student's hands, and they should not be tampered with during class. As an exception, these devices may only be triggered when indicated and used only for illustrative purposes during the teaching process. If you fail to comply with this policy, you will be dismissed on that day and you will be recorded as absent for this class.
Course withdrawal	Students can only formally withdraw from classes by submitting the online withdrawal form available on the student services portal or at the registration unit according to the university regulations.

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