



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

PP446 Economic Entomology - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

3 Credit Hours. Recognition, life history, habits, and management of economically important insect of field, fruit, and vegetable crops.

Teaching Method: On Campus

Text Book

Title	Handbook of Vegetable Pests
Author(s)	Capinera, J.
Edition	2nd Edition
Short Name	Vegetable pests
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Fruit tree pests	Pests of Fruit Crops: A Colour Handbook	Alford, D. V.	1st Edition	
Ornamental plants pests	Pests of Ornamental Plants	Alford, D. V.	1st Edition	
pests of fruit trees	Fruit Fly Pests: A Word Assessment of Their Biology and Management	McPheron, B. A.	1st Edition	
Pest of horticulture plants	Destructive and Useful Insects; Their Habits and Control.	Metcalf, R. L. & Metcalf, R. A.	5th Edition	
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Instructor	
Name	Prof. Hail Shannag
Office Location	C4L2
Office Hours	Sun : 10:30 - 13:30 Mon : 09:00 - 11:00 Tue : 09:00 - 11:00 Wed : 09:30 - 11:15
Email	hail@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Mon, Wed : 11:30 - 12:30 Room: C5023

Prerequisites		
Line Number	Course Name	Prerequisite Type
623411	PP341 Entomology	Prerequisite / Pass

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Course overview and pests life cycle	
Week 2	Effect of the environmental conditions on arthropod pests and damages caused by pests	
Week 3	Detection of pests ? what to look for? and scouting and monitoring	
Week 4	Scouting tools, aids and methods and recognizing feeding patterns and pest signs	
Week 5	Pest of vegetables in the fields and greenhouses	
Week 6	Arthropod pests of stone fruit trees	
Week 7	Insect pests of apple trees	
Week 8	Insect pests of pomegranate trees	
Week 9	Insect pests of vine grapes	
Week 10	Pests of fig trees	
Weeks 11, 12	Arthropod pests of citrus	
Weeks 13, 14	Pests of olive trees	
Weeks 15, 16	Pests of indoor and outdoor ornamental plants	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Identify major arthropod pests of agriculture and horticulture crops based on taxonomic and systematic techniques, as well as infestation symptoms [1L7S1, 1L7C1, 1L7C2, 1L7C3]	15%	
Develop knowledge on biology, ecology, and losses caused arthropod pests [1L7S2, 1L7S3]	15%	
Described the past, present, and promising new practices for pest management for each situations to ensure an economical, effective and environmentally sustainable method of pest mitigation [1L7S1, 1L7C1, 1L7C2]	15%	
Apply ecological principles to pest management decisions [1L7S1, 1L7C1, 1L7C4]	15%	
Develop intellectual skill on timing of pesticide application, dosage, equipment selection, for effective pest management [1L7S1, 1L7C4]	20%	
Improve the skill on usage of IPM tools for scientific pest management and understand its importance on a regional, national and international scale [1L7S1, 1L7S2]	20%	

Relationship to Program Student Outcomes (Out of 100%)						
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7

Relationship to NQF Outcomes (Out of 100%)						
L7S1	L7S2	L7S3	L7C1	L7C2	L7C3	L7C4
33.75	17.5	7.5	13.75	8.75	3.75	15

Evaluation	
Assessment Tool	Weight
First	30%
Second	30%
Final	40%

Policy

Assessment policy	<p>Course Format: Two 1-hour lecture and one 3-hour laboratory per week Lecture: Total of Course Grade?.... 80% First Exam?... 25% Second Exam?... 25% Final Exam (comprehensive) ?..... 30% Laboratory: Total of Course Grade ????. 20% Collection and Identification ???..?. 5% Quizzes ..????... 5% Final Lab Exam (comprehensive) ??????. 10%</p>
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the school administration
Cheating	Prohibited; and in case of cheating the student will be subject to punishment according to the school rules and regulation
Attendance	According to the university policy
Participation	Students will be assigned reading material and encouraged to present current research findings in the group discussion
Withdraw	Deadline announced by the school
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