

**Republic of Iraq**

**The Ministry of Higher  
Education**

**& Scientific Research**

بسم الله الرحمن الرحيم



**University: Diyala**

**College: Agriculture**

**Department: Horticulture and  
Landscaping**

**Stage: second**

**Lecturer name: Hussein Ali  
Moutny**

**Qualification: Ass. Pro.**

**Place of work: Collage of Agriculture**

## **Flow up of implementation celli pass play**

Course Instructor	Hussein Ali Mutney				
E-mail	<b>husseinmutney@uodiyala.edu.iq</b>				
Title	<b>Horticultural insect pests</b>				
Course Coordinator	First semester				
Course Objective	Teaching students and introducing them to the most important insect pests that affect horticultural plants, learning about their classification, scientific names, the most important symptoms they cause, and methods of preventing them, which in turn leads to an increase in plant production.				
Course Description	Teaching students and introducing them to the location of insects in the animal kingdom, the characteristics of the arthropod phylum, identifying the characteristics of the insect class, the most important insects that infect plant families, the life cycle of these insects, and methods of preventing them. Use the best environmentally friendly methods that are .alternatives to chemical pesticides				
Textbook	1- Al-Azzawi, A. F., Ibrahim Q. Q., and Al-Jubouri.H. S. 1990. Economic Insects, Ministry of Higher Education and Scientific Research, Dar Al-Kutub Printing Foundation, Baghdad Uni., 562 Pp. 2. Qaddo, I. Q. and Hussein A. A.. 2015. General Entomology. Republic of Iraq - Ministry of Higher Education and Scientific Research. 442 pp. 3. Al-Zubaidi, H. K. 1992. Biological control of insects , Dar Al-Kutub and Printing for Publishing, Ministry of Higher Education and Scientific Research, Mosul - Iraq, 439, p.				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20%	15%	5%		60%
General Notes	Type here general notes regarding the course				

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week	Date	Topics Covered	Practical Part
1		Economic importance of agricultural pests	Identify the most important disease symptoms
2		Definitions of plant pathogenic terms	Study the symptoms of horticultural crop diseases and methods of controlling them
3		Parasitic plant pathogens	Study the symptoms of horticultural crop diseases and methods of controlling
4		Non-parasitic plant pathogens	characteristics of the arthropod phylum and general characteristics of the insect class
5		Ways of spreading parasitic plant diseases	First exam
6			Places where insects are found
7		Methods of resistance plant diseases	Watching the spiracles, watching the abdominal nerve cord
8		Introduction to entomology, types of morphology in insects	Tools needed to collect insects, sampling methods
9		he relationship of insects with humans, their benefits, and their harms	Morphology in insects: types of larvae, types of pupae
10		Factors for the success of insects in their environments, types of nutrition in insects	Palm diseases and insects
11		Methods of insect reproduction	Diseases and insects of fruit trees
12		Second exam	
13		Principles of insect classification Insect control	Vegetable diseases and insects
14		methods, integrated pest management	Ornamental diseases and insects
15		chemical pesticides used to control pests and methods of preparing them	Viral diseases

Dean's signature  
Prof. Dr. Raaed Ibrahim Khalil  
15/1/2025

Teacher's signature  
Assoc. Prof. Hussein Ali Mutney  
15/1/2025