

Republic of Iraq

The Ministry Of Higher
Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala

College: Agriculture

Department: Animal Production

Stage: first

Lecturer name: Hussein Ali

Moutny

Qualification: Ass. Prof.

Place of work: Collage of Agriculture

Flow up of implementation celli pass play

Course Instructor	Hussein Ali Mutney				
E-mail	husseinmutney@uodiyala.edu.iq				
Title	Principles of Plant Protection				
Course Coordinator	Second semester				
Course Objective	<p>The student should get acquainted with the field of distinguishing disease infections from insect infestation :</p> <ul style="list-style-type: none">•Applying for external tests by local/regional/international bodies of insects.• The student should get acquainted the enable one to gain knowledge of the methods used and methods for distinguishing disease and insect infestations				
Course Description	<p>Introducing students to insect feeding methods , Dividing and clarifying the types of injuries and symptoms of plant diseases , Illustrate and explain the methods of insect reproduction. , Illustrate and explain the environmental factors affecting the life and activity of insects. Explain and clarify methods of insect resistance , Clarifying and explaining economic mites and the important factors in their spread. , An explanation of the methods, nature of life and damage caused by agricultural rodents. , Explain and illustrate the economic importance of pests. , Clarification and explanation of disease definitions and terminology , Introducing students to general information about entomology and pathology , Introducing students to insect feeding methods , Dividing and clarifying the types of injuries and symptoms of plant diseases , Illustrate and explain the methods of insect reproduction. , Illustrate and explain the environmental factors affecting the life and activity of insects. , Explain and illustrate the economic importance of pests. , Clarification and explanation of disease definitions and terminology , Illustrate and explain the causes of . diseases , Illustration and explanation of parasitic plants</p>				
Textbook	<p>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.</p> <p>2- Qaddo, I. Q. and Hussein A. A.. 2015. General Entomology. Republic of Iraq - Ministry of Higher Education and Scientific Research. 442 pp</p>				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20%	15%	5%	10%	50%
General Notes	Type here general notes regarding the course				

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week	Date	Topics Covered	Practical Part
1		Introduction to Entomology	Taxonomic of insects
2		Insect feeding methods and factors survive	General characteristics of the arthropod phylum
3		Insect reproduction methods	Classes of the phylum Arthropoda
4		Environmental factors affecting the life activity of insects	Insect body structure / head accessories / mouth types / antenna types
5		First month's examination	First month's examination
6		Methods of insect resistance	Thorax attachments / types of legs / types of wings / abdominal attachments
7		Economic Mites and Important Factors in Iraq	Metamorphosis
8		External anatomy of agricultural mites, important factors of agricultural mites	Classification of insects and characteristics of insect orders
9		The nature of life and damage of non-insect pests, rodents and birds, and methods of controlling them	Pathology of plant
10		Economic importance of plant diseases. Definitions of plant disease terms	Wheat and barley insects + corn + cotton
11		Second month examination	Palm/fruit insects and cucurbits
12		Parasitic plant pathogens (biological)	Second month examination
13		Non-parasitic plant pathogens (abiotic)	Identify the most important symptoms and signs of plant pathogens
14		Methods of spread of parasitic plant diseases	symptoms of field crop diseases and methods of controlling them

15		Basic methods of controlling plant diseases in this science	symptoms of horticultural crop diseases and methods of controlling
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Instructor Signature
15/1/2025



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15/1/2025