

Republic of Iraq

The Ministry Of Higher
Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala

College: Agriculture

Department: Soil and water
resources department

Stage: Second

Lecturer name: Dr. Tareq S.
Abbas

Qualification: : PhD.

Place of work: Coll. Of
Agriculture

Flow up of implementation celli pass play

Course Instructor	Dr. Tareq S. Abbas				
E-mail	tariq.saadi@uodiyala.edu.iq				
Title	Principles of plant protection				
Course Coordinator	the second				
Course Objective	The science of plant protection studies the preservation of plant production using vari methods and means of plant protection..... Differentiate between symptoms and signs of disease. Knowing harmful insects by knowing the method of damage through knowing the mutation the parts of the mouth Differentiate between different plant pathogens Knowledge of different control methods.....				
Course Description	1- The student gets to know the concept of plant protection 2- The student should classify the parts of the insect's body 3- The student should differentiate between infection by insect pests and the causes of various plant diseases 4- The student will analyze the signs and symptoms of various plant disease causes 5- The student should evaluate the appropriate control method according to his diagnosis of various pests and disease causes .				
Textbook	Al-Azzawi, Abdullah Falih, Ibrahim Qaddouri Qaddo, Haider Saleh Al- -1 Haidari. 1990. Entomology. Dar Al-Hekma for Printing and Publishing, 252 .pages 2- Al-Adel, Khaled Muhammad. 2006. Pesticides, basic concepts and their role in the agricultural and health fields. First edition: 422 pages				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20%	15%	5%		60%

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week	Date	Topics Covered	Practical Part
1		The student gets to know the economic importance of agricultural pests	Taxonomic position of insects
2		The student will learn about the factors that help insects survive and succeed in the environment	Characteristics of the phylum Arthropoda
3		The student gets to know the methods of insect reproduction	phylum Arthropoda
4		For the student to recognize the types of mouth parts in insects	Insect class features
5		The student gets to know the environmental factors affecting the life and activity of insects The student will learn about ways to combat harmful insects	Insect body structure: head and appendages, thorax and appendages, abdomen and appendages
6			Metamorphosis in insects
7		The student will be familiar with the pictures of manufacturing chemical pesticides	Classification of insects and features of insect orders
8		For the student to become familiar with the external anatomy of the agricultural dream, and the important factors of the agricultural dream	
9		The student gets to know the nature of life and the damage caused by non-insect pests (rodents, birds) and ways to combat them	Identify the most important symptoms and signs of plant pathogens

10		The student gets to know the economic importance of plant diseases	Study of the most important symptoms of plant pathogens
11		The student will be familiar with the causes of parasitic plant diseases (biological)	Study of the most important signs of plant pathogens
12		The student will be familiar with the causes of non-parasitic (abiotic) plant diseases.	Study the symptoms of field crop diseases
13		The student will learn about the methods of spread of biological parasitic plant diseases	Studying methods of resistance to field crop diseases
14		The student will be familiar with methods of controlling basic plant diseases	Study of the symptoms of horticultural diseases
15			