

Course Description Form of Principles of plant protection

1. Course Name:	
Principles of plant protection	
2. Course Code:	
PRPP210	
3. Semester / Year:	
Second semester/ 2024-2025	
4. Description Preparation Date:	
15/1/2025	
5. Available Attendance Forms:	
Full time (theoretical lecture and practical lecture) weekly	
6. Number of Credit Hours (Total) / Number of Units (Total)	
5 hours (2 hours theoretical and 3 hours practical per week) for 14 weeks, number of units 3.5 units	
7. Course Administrator's Name (Mention All, If More Than One Name)	
Name : Dr. Tareq Saadi Abbas - Email : tariq.saadi@uodiyala.edu.iq -Abdel Sattar Mansour Abdel	
8. Course Objectives	
Course Objectives: Graduating students who are able to:	The science of plant protection studies the preservation of p production using various methods and means of p protection..... Differentiate between symptoms and signs of disease. Knowing harmful insects by knowing the method of dam through knowing the mutations of the parts of the mouth Differentiate between different plant pathogens Knowledge of different control methods.....
9. Teaching and Learning Strategies	

Strategy	In-person lectures for 14 weeks, including two monthly exams, daily exams, and scientific reports
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10. Course Structure

Theoretical part

Week	Hours	Required learning outcomes	Unit or Subject Name	Learning Method	Evaluation Method
1	2	The student gets to know the economic importance of agricultural pests	of Principles plant protection	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
2	2	The student will learn about the factors that help insects survive and succeed in the environment	of Principles plant protection	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
3	2	The student gets to know the methods of insect reproduction	Principles of plant protection	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
4	2	For the student to recognize the types of mouth parts in insects	Principles of plant protection	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
5	2	The student gets to know the environmental factors affecting the life and activity of insects	Principles of plant protection	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
6	Semester 1st exam				
7	2	The student will learn about ways to combat harmful insects	Principles of plant protection	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
8	2	The student will be familiar with the pictures of manufacturing chemical pesticides	Principles of plant protection	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
9	2	For the student to become familiar with the external anatomy of the agricultural dream, and the important factors of the agricultural dream	Principles of plant protection	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
10	2	The student gets to know the nature of life and the damage caused by non-insect pests (rodents, birds) and ways to combat them	Principles of plant protection	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
11	2	The student gets to know the economic importance of plant diseases	Principles of plant protection	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports

12	Semester 2 nd exam				
13	2	The student will be familiar with the causes of parasitic plant diseases (biological)	Principles of plant protection	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
14	2	The student will be familiar with the causes of non-parasitic (abiotic) plant diseases.	Principles of plant protection	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
Practical part					
Week	Hours	Required learning outcomes	Unit or Subject Name	Learning Method	Evaluation Method
1	3	Taxonomic position of insects	of Principles plant protection	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
2	3	Characteristics of the phylum Arthropoda	Principles of plant protection	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
3	3	Insect class features Insect body structure: head and appendages, thorax and appendages, abdomen and appendages	Principles of plant protection	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
4	3	Morphology in insects	Principles of plant protection	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
5	3	Classification of insects and features of insect orders	Principles of plant protection	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
6	Semester 1 st exam				
7	3	Classification of insects and features of insect orders	of Principles plant protection	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
8	3	Identify the most important symptoms and signs of plant pathogens	Principles of plant protection	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
9	3	Identify the most important symptoms and signs of plant pathogens	Principles of plant protection	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
10	3	Studying the symptoms of field crop diseases and methods of controlling them	Principles of plant protection	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
11	3	Studying the symptoms of field crop diseases and methods of controlling them	Principles of plant protection	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
12	Semester 2 nd exam				
13	3	Studying the symptoms of field crop diseases and	of Principles plant protection	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports

		methods of controlling them			
14	3	Studying the symptoms of field crop diseases and methods of controlling them	Principles of plant protection	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports

11. Course Evaluation

Examination Monthly & daily exams with discussion questions inside the lecture .
The degree of participation in the questions related to the subject.

12. Learning and Teaching Sources

Required Textbooks (Curricular Books, If Any)	- 1- Al-Azzawi, Abdullah Falih, Ibrahim Qaddouri Qaddo, Haider Saleh Al-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
Main References (Sources)	- Al-Shukri, Mahdi Majeed. 1991. The basics of fungi and their plant diseases. Ministry of Higher Education and Scientific Research - University of Baghdad
Recommended Books and References (Scientific Journals, Reports...)	Iraqi academic journal
Electronic References, Websites	