

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             | <a href="mailto:huseinmutney@uodiyala.edu.iq">huseinmutney@uodiyala.edu.iq</a>  |            |            |            |         |            |     |     |    |     |     |
| Title              | Principles of Plant Protection  |            |            |            |         |            |     |     |    |     |     |
| Course Coordinator | Second semester   |            |            |            |         |            |     |     |    |     |     |
| Course Objective   | The student should get acquainted with the field of distinguishing disease infections from insect infestation : <ul style="list-style-type: none"><li>•Applying for external tests by local/regional/international bodies of insects.</li><li>• The student should get acquainted the enable one to gain knowledge of the methods used and methods for distinguishing disease and insect infestations</li></ul>   |            |            |            |         |            |     |     |    |     |     |
| Course Description | 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 |            |            |            |         |            |     |     |    |     |     |
| 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.<br>2- Qaddo, I. Q. and Hussein A. A.. 2015. General Entomology. Republic of Iraq - Ministry of Higher Education and Scientific Research. 442 pp  |            |            |            |         |            |     |     |    |     |     |
| Course Assessments | <table border="1"><thead><tr><th>Term Tests</th><th>Laboratory</th><th>Quizzes</th><th>Project</th><th>Final Exam</th></tr></thead><tbody><tr><td>20%</td><td>15%</td><td>5%</td><td>10%</td><td>50%</td></tr></tbody></table>  | Term Tests | Laboratory | Quizzes    | Project | Final Exam | 20% | 15% | 5% | 10% | 50% |
| 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 | <b>Basic methods of controlling plant diseases in this science</b> | <b>symptoms of horticultural crop diseases and methods of controlling</b> |
|----|--|---|



**Instructor Signature**  
**15/1/2025**



**Dean Signature**  
**15/1/2025**