

Course Description Form

1. Course Name:

Horticultural plant insects

2. Course Code:

HOIN426

3. Semester / Year:

4th

4. Description Preparation Date:

quarterly 1/2/2024

5. Available Attendance Forms:

Blended education

6. Number of Credit Hours (Total) / Number of Units (Total)

75 hours / 3.5 units

7. Course administrator's name (mention all, if more than one name)

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8. Course Objectives

Theoretical:

- 1- Asking students deductive questions.
- 2- Developing training programs.
- 3- Finding solutions to the problems and obstacles that students encounter in the practical part.
- 4- Enabling students to find solutions and applications for crisis situations.

Practical:

- The course aims to prepare graduates in plant protection sciences who are familiar with the basic principles of entomology, in terms of their harm to the agricultural environment and their benefits on the other hand, as well as their forms and how to distinguish them from other organisms close to them. The course also aims to become familiar with the structures of these external living organisms and know their internal bodily systems. in detail.

9. Teaching and Learning Strategies

Theoretical:

- Interactive lecture
- Brainstorming
- Assignment of tasks and report
- Providing students with the basics and additional topics related to insect classification

Practical:

- Commissioning teamwork to uncover leadership skills
- Assignment of tasks and report for each experience



- Asking students to ask a set of thinking questions during the lecture
- Giving students homework that requires self-explanation in causal ways.

10. Course Structure

We ek	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 3 Practical	Theoretical a1: remembers introduction to entomology and the factors that helped insects spread. Practical a1: Remembers the characteristics of insects class, the divisions of the insect's body, the head, and its appendages.	Theoretical: Entomology introduction, factors that help spread insects, pests, their types and harms, benefits and harms of insects. Practical: Characteristics of insect class, insect body divisions, head and appendages	Theoretical: Audio Methods Writing Style On the board direct dialogue style Practical: Assignment and reporting	Short Tests, Duty Assignment, Discussions
2	2 3 Practical	Theoretical a2: The student reviews the life characteristics of insects, mating in insects and their methods of reproduction, and types of hibernation in insects. Practical a2: The student reviews the life characteristics of insects, mating in insects and their methods of reproduction, and types of hibernation in insects.	Theoretical: Life characteristics of insects, egg stage, nymph stage and larval stage, pupal stage, adult stage, mating in insects, methods of reproduction, types of hibernation in insects. Practical: Thorax and its appendages	Theoretical: Audio Methods Writing Style On the board direct dialogue style Practical: Assignment and reporting	Short Tests, Duty Assignment, Discussions
3	2 Practical	Theoretical a3: The student discusses the basics of pest control.	Theoretical: Basics of pest control, pest control methods.	Theoretical: Audio Methods Writing Style On the board direct dialogue style	Short Tests, Duty Assignment, Discussions

		The student discusses the abdominal area and its appendages and the types of transformation or changes in living organisms.	The abdomen and its appendages, development in insects and their types.	Assignment and reporting	
4	2 Theoretical 3 Practical	Theoretical b1: Discovers fruit tree insects and apple tree insects. Practical b2: Assess apple insects, observing the appearance of the infestation, damage, and describing the insect.	Theoretical: Fruit tree insects, apple tree insects Practical: Appearance of infestation, damage and description of the insect (apple insect).	Theoretical: Audio Methods Writing Style On the board direct dialogue style Practical: Assignment and reporting	Short Tests, Duty Assignment, Discussions
5	2 Theoretical 3 Practical	Theoretical b2: Assess olive tree insects and pistachio tree insects Practical d1: Classified olive and pistachio tree insects in terms of the appearance of infestation, damage, and description of the insects.	Theoretical: Olive and pistachio trees insects. Practical: Appearance of infestation, damage, and description of the insect (olive and pistachio insect).	Theoretical: Audio Methods Writing Style On the board direct dialogue style Practical: Assignment and reporting	Short Tests, Duty Assignment, Discussions
6	2 Theoretical 3 Practical	Theoretical c1: Shows grape insects. Practical c2: divided Grapevine insects on the appearance of the infestation, damage, and description of the insect.	Theoretical: grape insects. Practical: Appearance of infestation, damage, and description of the insect (grape insects).	Theoretical: Audio Methods Writing Style On the board direct dialogue style Practical: Assignment and reporting	Short Tests, Duty Assignment, Discussions
7	2 Theoretical	Theoretical c3: Student interacts with stone fruit tree insects.	Theoretical: stone fruit trees insects.	Theoretical: Audio Methods Writing Style On the board direct dialogue style	Short Tests, Duty Assignment, Discussions

	3 Practical	Practical d2: The student collects stone fruit tree insects and distinguishes between the appearance of the infestation and the damage caused by the insect and a description of the insect.	Practical: Appearance of infestation, damage, and description of the insect (stone fruit trees insects).	Practical: Assignment and reporting	
8	2 Theoretical 3 Practical	Theoretical c4: The student compares pomegranate and fig insects. Practical c3: The student divides pomegranate and fig insects based on the appearance of the infestation, damage, and description of the insect.	Theoretical: pomegranate and fig insects. Practical: Appearance of infestation, damage, and description of the insect (pomegranate and fig insects).	Theoretical: Audio Methods Writing Style On the board direct dialogue style. Practical: Assignment and reporting.	Short Tests, Duty Assignment, Discussions
9	2 Theoretical 3 Practical	Theoretical b3: Differentiates between citrus and palm insects. Practical b4: Demonstrates the student's skills in distinguishing between the appearance of infestation, damage, and insect description of citrus and palm insects.	Theoretical: citrus and palm insects. Practical: Appearance of infestation, damage, and description of the insect (citrus and palm insects).	Theoretical: Audio Methods Writing Style On the board direct dialogue style. Practical: Assignment and reporting	Short Tests, Duty Assignment, Discussions
10	2 Theoretical 3 Practical	Theoretical b5: Identifies vegetable insects, insects of the leguminous family. Practical b3: Distinguishes between insects of the leguminous	Theoretical: vegetable insects, insects of the leguminous family. Practical: Appearance of infestation, damage, and description of the insect (vegetable	Theoretical: Audio Methods Writing Style On the board direct dialogue style Practical: Assignment and reporting	Short Tests, Duty Assignment, Discussions

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		family in terms of appearance, damage, and description of the insect.	insects, insects of the leguminous family).		
11	2 Theoretical 3 Practical	Theoretical c3: Divides insects of the Cucurbitaceae family and insects of the Cruciferous family. Practical b3: distinguish between Cucurbitaceae family insects and insects of the Cruciferous family.	Theoretical: Cucurbitaceae family insects and insects of the Cruciferous family. Practical: Appearance of infestation, damage, and description of the insect (Cucurbitaceae family insects and insects of the Cruciferous family).	Theoretical: Audio Methods Writing Style On the board direct dialogue style Practical: Assignment and reporting	Short Tests, Duty Assignment, Discussions
12	2 Theoretical 3 Practical	Theoretical d3: Classification of Solanaceae family insects. Practical d2: Collect of Solanaceae family insects on appearance of the infestation, damage, and description of the insect.	Theoretical: Solanaceae family insects. Practical: Appearance of infestation, damage, and description of the insect (Solanaceae family insects).	Theoretical: Audio Methods Writing Style On the board direct dialogue style. Practical: Assignment and reporting	Short Tests, Duty Assignment, Discussions
13	2 Theoretical 3 Practical	Theoretical d4: Student moderates discussion panels on the insects of the Aceaceae, the Lilyaceae, and the Maraceae. Practical d1: Insects are classified into the marshmallow family, the saprophytic family, and the lily family, depending on the appearance of the infestation, damage, and description of the insect.	Theoretical: insects of the Aceaceae, the Lilyaceae, and the Maraceae. Practical: Appearance of infestation, damage, and description of the insect (insects of the Aceaceae, the Lilyaceae, and the Maraceae).	Theoretical: Audio Methods Writing Style On the board direct dialogue style. Practical: Assignment and reporting.	Short Tests, Duty Assignment, Discussions
14	2 Theoretical	Theoretical b5:	Theoretical:	Theoretical:	Short Tests,

	3 Practical	The student identifies ornamental plant insects and horticultural plant insects. Practical e1: Gives a clear description of ornamental and horticultural plant insects through the appearance of infestation, damage, and insect description.	ornamental plant insects and horticultural plant insects. Practical: Appearance of infestation, damage, and description of the insect (ornamental plant insects and horticultural plant insects).	Audio Methods Writing Style On the board direct dialogue style. Practical: Assignment and reporting.	Duty Assignment, Discussions
15	2 Theoretical 3 Practical	Theoretical: Field visit Practical: Field visit	Theoretical: Field visit Practical: Field visit	Theoretical: a reporting Practical: a reporting	Short Tests, Duty Assignment, Discussions

11. Course Evaluation

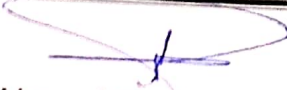
	Calendar Methods	Calendar Date (Week)	Grade	Relative Weight%
1	Theoretical Final Report + Practical Experience Reports	Theoretical week 15 practical week 1-15	7 Theoretical + 6 Practical	13%
2	Short Test (1) Quiz	Week (2-5)	4 Theoretical + 2 Practical	6%
3	Midterm Exam half-test (theoretical and practical)	Week (8,14)	10 Theoretical + 5 Practical	15%
4	Short Test (2) Quiz	Week (9-12)	4 Theoretical + 2 Practical	6%
5	Final Practical Test	20	20	20%
6	Final theoretical test	40	40	40%
			100	

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	- General entomology / Muhammad Fouad Tawfiq
Main references (sources)	- Modern research in the field of insects - Books on the principles of entomology
Recommended books and references (scientific journals, reports...)	- Rev. APPLI. Entomol. - J. Economic Entomology
Electronic References, Websites	- Google research gate. - Google scolar.

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