Course Description Form

1. Course Name:

PESTCIDIES

2. Course Code:

PEST417

3. Semester / Year:

FIRSTsemester/FOURTH stage/2024-2025

4. Description Preparation Date:

1-2-2025

5. Available Attendance Forms:

Classroom+

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

2 hours theory / 3 hours practical (5 hours) / 3 units

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

Name: 1- Dr. SADDAM MOWAFAK HASSAN

2- M.M.HAMED MOHAMED HAMED

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8. Course Objectives

Course Objectives

- Introducing students to the common types of Nematode a their effect on crops, and explaining their transmiss methods and infection mechanisms.
- Provide an understanding of the basic biology and ecology of Nematode, with an emphasis on the impact environmental factors on their spread and development.
- Students learned the skills of diagnosing caecilian infection and analyzing the factors affecting them, using laborat tests and field observation.
- Study means and methods of prevention and control Nematode, including the use of pesticides and advance agricultural techniques such as biological control.
- Analyze the economic and environmental impacts Nematode, and study sustainable and prevent management methods to reduce their impact on crops a the environment.
- Enhancing students' skills in planning and implement field experiments and scientific studies to effectively treat a control caecilian infestations.
- Encouraging students to research and interact with mod literature and research in the field of Nematode, and

contribute to developing innovative solutions to meet cur	۲r
challenges in this field.	

9. Teaching and Learning Strategies

Strategy

- Brainstorming
- Teamwork
- Discussion
- Discovery learning
- Problem solving or problem-based learning
- E-Learning
- Practical field training
- Think, discuss, share

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
	Theoretical: A1 knows the concept of pest and pest	Theoretical: Pests, their types and	Interactive lecture, brainstorming, dialogue and discussion, self-learning	semester test 1, final test	
1		damage Practical: b1 Enumerate the groups of pesticides and their classifications	harms Practical: Definition of pesticides, their types and classifications	Interactive lecture, brainstorming, dialogue and discussion, field training, self-learning	Short practical test
	2 Theoretical 3 Practical Writes a report on the types of pesticides heoretical: A2 explains methods of pest control Practical: b2 Writes a report on the types of pesticides	explains methods of pest control	Theoretical: Methods of pest control	interactive lecture, brainstorming, dialogue and discussion, self-learning	semester test 1, final test
2		Practical: Viewing different types of pesticides	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self- learning	short practical test	
	Theoretical 3 Practical is familiar with different pesticides Practical: B4 tests pesticide additives pe	is familiar with different	heoretical: Pesticides Practical:	Interactive lecture, brainstorming, dialogue and discussion, self-learning	semester test 1, final test
3		Exploring the importance of additives in pesticide preparation	Interactive lecture, brainstorming, dialogue and discussion, field training	self-learning Short practical test	
	1 Theoretical 3 Practical	Theoretical: A3 understands pesticides Practical: B4	Theoretical: Insecticides Practical: Knowing the importance of	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Semester test 1, final test, report.
4		tests pesticide additives	additives in pesticide preparation	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self- learning	short practical test

	1 Theoretical 3 Practical	Theoretical: A3 understands pesticides	Theoretical: Insecticides Practical:	, interactive lecture, brainstorming, dialogue and discussion, self-learning	semester test 1, final test, report.
5		Practical: B4 tests for pesticides	Conduct laboratory experiments	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self- learning	Semester test 1, final test, report.
6	1 Theoretical 3 Practical	Theoretical A3 Understands the chemicals that inhibit insect reproduction Practical: B2 writes a report on some pesticide labels	Theoretical: Chemicals that inhibit insect reproduction Practical: Views different models of these stickers	interactive lecture, brainstorming, dialogue and discussion, self-learning interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self- learning	short test, final test
7	1 Theoretical 3 Practical	Theoretical A3 Understands the chemicals that inhibit insect reproduction Practical: b4 tests some fungicides	Theoretical: Fungicides Practical: Conducting experiments based on these studies	interactive lecture, brainstorming, dialogue and discussion, self- learning interactive lecture, brainstorming, dialogue and discussion	semester test 2, final test semester test 2, final test
8	1 Theoretical 3 Practical	Theoretical: A3 Understands fungicides and their modes of action Practical: b4 tests some fungicides	Theoretical: Fungicides Practical: Conducting experiments based on these studies	interactive lecture, brainstorming, dialogue and discussion Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises	self-learning, semester test 2, final test self-learning Short practical test
9	1 Theoretical 3 Practical	Theoretical: A3 understands pest resistance Practical: B4 tests some pesticides on a number of collected insects	Theoretical: Pest resistance to pesticide action practical: Collecting insect samples and conducting experiments on them	Interactive lecture, brainstorming, dialogue and discussion, self- learning Interactive lecture, brainstorming, dialogue and discussion, fiel A3 understands pest resistance d training, practical exercises, self- learning	semester test 2, final test. short practical test
10	Theoretical 3 Practical	Theoretical: A3 understands pest resistance Practical: B4 tests some pesticides on a number of collected insects	Theoretical: Pest resistance to pesticide action Practical: Collecting insect samples and conducting experiments on them	interactive lecture, brainstorming, dialogue and discussion, self- learning Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	quarterly test 2 Short practical test

	1 Theoretical 3 Practical	Theoretical: A3 Understands fungicides and	Theoretical:	interactive lecture, brainstorming, dialogue and discussion, self-	final exam
11		their modes of action Practical: B1 enumerates the effects and harms of pollution	Pesticides and environmental pollution Practical: Test animals for pesticides and various chemicals	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning.	
12	Theoretical 3 Practical	Theoretical: A3 Understands fungicides and their modes of action Practical: B1 enumerates the effects and harms of	Theoretical: Pesticides and environmental pollution Highlighting practical: Conducting experiments specific to the	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning. Interactive lecture, brainstorming, dialogue and discussion, field training, practical	short practical test.
	1 Theoretical	pollution Theoretical: A3 Understands	topic	exercises, self-learning Dialogue and discussion, self-learning	Report
13	3 Practical	weedicides and their modes of action Practical: B1 enumerates the effects and harms of pollution	Theoretical: Pesticides and environmental pollution Practical: Conduct experiments on the topic	Dialogue and discussion, field training, practical exercises, self-learning	Report
	1Theoretical 3 Practical	Theoretical: A3 understands pollution Practical: B1	Theoretical: Pesticides and	Interactive lecture, brainstorming, dialogue and discussion, self- learning	report.
14		enumerates the effects and harms of pollution	environmental pollution Practical: Practical application of these analyses	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	Short practical test 3
	1 Theoretical 3 Practical	Theoretical: A3 understands pollution	Theoretical: Pesticides and environmental	Brainstorming, dialogue and discussion, self- learning	Report
15		Practical: B1 enumerates the effects and harms of pollution	pollution The skeleton and the rest of the themes practical: Practical application of these examples	Brainstorming, dialogue and discussion, field training, practical exercises	Report

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

1- Pesticides: Awad Shaaban and Ni

	Mustafa Al-Mallah, 1993
Main references (sources)	
Recommended books and references (scientific journals, reports)	-Theoretical foundations of pesticides, Niza Mustafa Al-Mallah and Abdul-Razzaq Al- Jubouri 3-The practical foundations of pesticides a their applications, Nizar Mustafa Al-Mal and Abdul-Razzaq Al-Jubouri
Electronic References, Websites	

The theoretical subject teacher and the practical subject teacher

Dr.SADDAM MOWAFAK HASSAN

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