Course Description Form

1. Course Name:

PESTCIDIES

2. Course Code:

PEST417

3. Semester / Year:

FIRSTsemester/FOURTH stage/2023-2024

4. Description Preparation Date:

1-2-2024

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

Email: DR.SADDAM_HASSAN@uomosul.edu.iq

8. Course Objectives

- Introducing students to the common types of pesticides and their effect on crops, and explaining their transmission methods and infection mechanisms.
- Provide an understanding of the basic biology and ecology of pesticides, with emphasis on the impact of environmental factors on their spread and development.
- Students learned the skills of diagnosing caecilian infections and analyzing the factors affecting them, using laboratory tests and field observation.
- Study means and methods of prevention and control of, including the use of pesticides and advanced agricultural techniques such as biological control.
- Analyze the economic and environmental impacts of pefticides, and study sustainable

and preventive management methods to reduce their impact on crops and environment.

• Enhancing students' skills in planning and implementing field experiments and scientific studies to effectively treat and control caecilian infestations.

إقسم وتسايدة الشبيان

• Encouraging students to research and interact with modern literature and research

in the field of Nematode, and to contribute to developing innovative solutions to m current 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

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Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
	2 Theoretical r Practical	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
,		damage Practical: b1 Enumerate the groups of pesticides and their classifications	Practical: Definition of pesticides, their types and classifications	Interactive lecture, brainstorming, dialogue and discussion, field training, self-learning	Short practical test
	2 Theoretical 3Practical	heoretical: a2 explains methods of pest control	Theoretical: Methods of pest control	interactive lecture, brainstorming, dialogue and discussion, self-learning	semester test 1, final test
۲	Practical: b2 Writes a report on the types of pesticides	Practical: Viewing different types of pesticides	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self- learning	short practical test	
	2 Theoretical	Theoretical a4 is familiar with different	heoretical: Pesticides Practical:	Interactive lecture, brainstorming, dialogue and discussion, self-learning	semester test 1, final test
ŗ		pesticides Practical: b4 tests pesticide additives	Exploring the importance of additives in pesticide preparation	Interactive lecture, brainstorming, dialogue and discussion, field training	self-learning Short practical test
4	1 Theoretical 3Practical	Theoretical: a31 2 understands pesticides	Theoretical:	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Semester test 1, final test, report.

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/		Practical: b4 tests pesticide additives	importance of additives in pesticide preparation	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self- learning	short practical test
10.7	1 Theoretical 3Practical	Theoretical: a3 understands pesticides	Theoretical: Insecticides Practical:	, interactive lecture, brainstorming, dialogue and discussion, self-learning	semester test 1, final test, report.
5		Practical: b4 labo	Conduct laboratory experiments	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self- learning	Semester test 1, final test, report.
	Theoretical	Theoretical a3 Understands the chemicals that	Theoretical: Chemicals that inhibit insect	interactive lecture, brainstorming, dialogue and discussion, self-learning	short test, final test
6		inhibit insect reproduction Practical: b2 writes a report on some pesticide labels	Practical: Views different models of these stickers	interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self- learning	short practical test
٧	1 Theoretical 3Practical	Theoretical a3 Understands fungicides and their modes of action Practical: b4	Theoretical: Fungicides Practical: Conducting experiments based on these studies	interactive lecture, brainstorming, dialogue and discussion, self- learning	semester test 2, final test
		tests some fungicides		interactive lecture, brainstorming, dialogue and discussion	semester test 2, final test
	1 Theoretical 3 Practical	Theoretical: a3 Understands fungicides and	Theoretical: Fungicides Practical:	interactive lecture, brainstorming, dialogue and discussion	self-learning, semester test 2, final test
8		their modes of action Practical: b4 tests some fungicides	Conducting experiments based on these studies	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises	self-learning Short practical test
	1 Theoretical 3 Practical	Theoretical: a3 understands pest resistance Practical: b4	Theoretical: Pest resistance to pesticide action	Interactive lecture, brainstorming, dialogue and discussion, self- learning	semester test 2, final test.
9		tests some pesticides on a number of collected insects	practical: Collecting insect samples and conducting experiments on them	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	short practical test
10	1 Theoretical	Theoretical: a3 understands pest resistance Practical: b4	Theoretical: Pest resistance to pesticide to pesticide as action	interactive lecture, figures in the state of	quarterly test 2

1	3 Practical	tests some pesticides on a number of collected insects	Practical: Collecting insect samples and conducting experiments on them	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	Short practical test
1	1 Theoretical 3 Practical	Theoretical: a3 understands pollution Practical: b1 enumerates the effects and harms of pollution	Theoretical: Pesticides and environmental pollution Practical: Test animals for pesticides and various chemicals	interactive lecture, brainstorming, dialogue and discussion, self- learning Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning.	final exam
2	1 Theoretical 3 Practical	Theoretical: a3 understands pollution Practical: b1 enumerates the effects and harms of pollution	Theoretical: Pesticides and environmental pollution Highlighting practical: Conducting experiments specific to the topic	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning. Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	short practical test.
13	1 Theoretical 3 Practical	Theoretical: a3 understands pollution Practical: b1 enumerates the effects and harms of pollution	Theoretical: Pesticides and environmental pollution Practical: Conduct experiments on the topic	Dialogue and discussion, self-learning Dialogue and discussion, field training, practical exercises, self-learning	Report
14	1Theoretical 3 Practical	Theoretical: a3 understands pollution Practical: b1 enumerates the effects and harms of pollution	Theoretical: Pesticides and environmental pollution Practical: Practical application of these analyses	Interactive lecture, brainstorming, dialogue and discussion, self-learning Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	Short practical test 3
15	1 Theoretical 3 Practical	Theoretical: a3 understands pollution Practical: b1 enumerates the effects and harms of pollution depth dept	Theoretical: Pesticides and environmental pollution The skeleton and the rest of the themes practical application of these examples	Brainstorming, dialogue and discussion, self-learning Brainstorming, dialogue and discussion, field training, practical exercises	Report

buting the score out of 100 according to my preparation, daily oral, monthly, or written 12. Learning and Teaching Resources	o the tasks assigned to the student such as en exams, reports etc		
Required textbooks (curricular books, if any)	1- Pesticides: Awad Shaaban and2- Nizar Mustafa Al-Mallah, 1993		
Main references (sources)			
Recommended books and references (scientific journals, reports)	-Theoretical foundations of pesticides,		
	Nizar Mustafa Al-Mallah and Abdul-		
	Razzaq Al-Jubouri		
	3-The practical foundations of pesticides		
	and their applications, Nizar Mustafa Mallah and Abdul-Razzaq Al-Jubouri		
Electronic References, Websites			

The theoretical subject teacher and the practical subject teacher

Dr.SADDAM MOWAFAK HASSAN

M.M. HAMED MOHAMED HAMED

Chairman of the Scientific Committee

Head of the Plant Protection Department

Dr. Juhayna Idris Mohamed,

Dr. Firas Kadhim AlJuboori