Course Description Form

1. Course Name:

Principles of Entomology 1

2. Course Code:

PRPE122

3. Semester / Year:

1st

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:

- Enabling the student to understand and comprehend what is related to insects and their relationship with humans and their domestic animals.
- Enable the student to distinguish between the harms and benefits of insects to humans.
- -Enabling the student to know the areas of the insect's body.
- Enabling the student to become familiar with the various insect body appendages and the usefulness of these appendages for distinguishing between different types of insects.

Practical:

 Enabling the student to become familiar with the most important laboratory methods for identifying and distinguishing between insect body parts through various practical experiments

9. Teaching and Learning Strategies

Theoretical:

- Interactive lecture
- Brainstorming
- Assignment of tasks and report
- Presentations of models of insects found in the environment

Practical:

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

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- Displaying models of mutations of insect body parts and distinguishing between mutations of different body regions.
- Dialogue and discussion

10. Course Structure

We	Hours	Required Learning	Unit or subject name	Learning	Evaluation
ek		Outcomes		method	method
1	2Theoretical	relationship of insects to humans and the taxonomic position of insects, in addition to the characteristics of the arthropod phylum, and the characteristics of	Theoretical: Introduction to insects and their relationship to humans, the taxonomic position of insects in the animal world, features of the arthropod phylum, features of the class of insects.	Theoretical: Audio Methods Writing Style On the board direct dialogue style	Short Tests Duty Assignment Discussions
	3 Practical	the insect class. Practical b1: collects insects from the field	Practical: Collect insects from the field	Practical: Assignment and reporting	
2	2Theoretical	Theoretical b2:	Theoretical:	Theoretical:	Short Tests
-		explains the factors that helped insects to spread, the most important classes of the arthropod phylum, and the characteristics of	The importance of insects, their harms and benefits, the distribution and spread of insects, the factors that helped the spread of insects	Audio Methods Writing Style On the board direct dialogue style	Duty Assignment, Discussions
	3 Practical	the insect class Practical a2: Knowledge of methods of killing insects	Practical: Kill insects.	Practical: Assignment and reporting	
3	2Theoretical	Theoretical b3:	Theoretical:	Theoretical:	Short Tests
		Judges insects' external appearance, body wall, structure and function	External appearance of insects, body wall, structure and function.	Audio Methods Writi Style On the board direct dialogue style	Duty Assignment Discussions
	3 Practical	Practical a3: Learn about methods of preserving insects (insect hardening)	Practical: Method of preserving insects (insect hardening)	Practical: Assignment and reporting	

		changes of cuticles, cuticle appendages, insect colors and their functions	appendages, insect color and their functions.	Writing Style On the board direct dialogue style	Assignment, Discussions
	3 Practical	Practical b4:	Practical: External appearance c insects, plates and bod wall.	Practical: Assignme and reporting	
	2Th coretical	Theoretical b5:	Theoretical:	Theoretical:	Short Tests,
5	2 i neoreticai	suggested to	Moulting in insects and cuticle formation	Audio Methods Writi Style On the board direct dialogue style	
	3 Practical	Practical c1: Recognizes the insect body parts and the insect head	Practical: Insect body parts, insect head.	Practical: Assignment and reporting	
6	2Theoretical	Theoretical c1:	Theoretical:	Theoretical:	Short Tests,
		Recognizes the bodys area, the head and its appendages, the antennae, function and their various modifications, and the eyes	Regions of the body in insects, the head and its appendages, antennae, function and their various mutations.	Audio Methods Writi Style On the board direct dialogue style	Duty Assignment, Discussions
	3 Practical	It detects the insect's head and its location on the body, head appendages, and types of antennae	Practical: Insect head, its location on the body, head appendages, types of antennae.	Practical: Assignment and reporting	
7	2Theoretical	Recognizes the positions of the head in relation to the position of the	Theoretical: Mutations of mouthparts in insects	Theoretical: Audio Methods Writi Style On the board direct dialogue style	Short Tests, Duty Assignment, Discussions
		body and the mutations of the mouth parts in insects	جامعة الموصل كالمحالات المحالات المحال		
	3 Practical	Practical b7: Examines the parts	ا المسم والمايد النبات (Practical: مرابع المسابقة المساب	Practical: Assignment and	

				reporting	
		of the mouth and its	modifications	reporting	1
		appendages	771	Theoretical:	Short Tests
8	2Theoretical	l .	Theoretical: Thorax, thorax appendages,	Audio Methods Writi	
		Recognizes the	legs, function and their	Style	Assignment,
		thorax, chest	modifications	On the board direct	Discussions
		appendages, legs,	,	dialogue style	Discussione
		function and their			
			Practical:	Practical:	
	3 Practical	Practical b8:	Thorax and its appendages,	Assignment and	
		Writes a report on	the legs and their types	reporting	
		the chest area and		9	
		its appendages, legs			
		and their types	TEL	701 1.	Chart Tosts
9	2Theoretical		Theoretical:	Theoretical: Audio Methods Writi	Short Tests,
		Learn about wings,	Wings, wing structure, wing veins, wing	Style On the board	Day
		their structure and	modifications, wing	direct dialogue style	Assignment, Discussions
		modifications, wing	clamping devices, flight		Discussions
		veining, wing	mechanics		
		attachment devices,			
		and flight mechanics.			
		mechanics.		Practical:	
	3 Practical	Practical b9:	Practical:	Assignment and	
	5 Fractical	Draws wings and	The thorax and its	reporting	
		their types, and	appendages, the wings and		
		uses a wing-	their types, the machine for		
		flapping machine	clasping the wings		
10	2Theoretical		Theoretical:	Theoretical:	Short Tests,
		Field visit	Field visit	a reporting	Duty
	3 Practical	Practical:	Practical:	Practical:	Assignment,
		Field visit	Field visit	a reporting	Discussions
11	2Theoretical	Theoretical a3:	Theoretical:	Theoretical:	Short Tests,
		Identify the	Abdomen, abdominal	Audio Methods Writi	Ducy
		abdomen and its	appendages, asexual	Style On the board	Assignment,
		appendages	and sexual appendages.	direct dialogue style Practical:	Discussions
	3 Practical	Practical c10:	Practical:	Assignment and	
		Participates in	Abdomen	reporting	
		examining the			
		abdominal area			
12	2Theoretical	Theoretical b11:	Theoretical:	Theoretical:	Short Tests
		Proficient in	Life history of insects,	Audio Methods	Duty
		identifying the life	_	Writing Style On the board direct dialogue	Assignment,
		history of insects	eggs, larvae and their	style.	Discussions
		and the stages of		0.510.	
		insect developments	- TO 3	Practical:	
	3 Practical	Practical b12:	Practical:	Assignment and	
		links reproduction		reporting	
		and growth	growth in insects		
13	2Theoretical	Theoretical d1:	Theoretical:	Theoretical:	Short Tests
		Discussions will be	Nymphal stages pre-	Audio Methods	Duty

	held on the nymphal and pre- pupal stages, types of pupae, and the pupal stage		ty	pupal stages, pupal types (cocoon), full stage.			Writing Style On the board direct dialogue style		Assignment Discussions
3 Practical Practical b10: Participates in a panel discussion about transformation and its types				Practical: Metamorphosis and its types			Practical: Assignment and reporting		
2Theoretical Theoretical b13: Shows the types of morphology or transformation in insects, and the orders of insects		f Ev	Theoretical: Evolution in insects, types of evolution in insects, orders of insects		Theoretical: Audio Methods Writing Style On the board direct dialogue style		Short Tests, Duty Assignment, Discussions		
	3 Practical Practical c2: Ability to distinguish between incomplete stages 15 2Theoretical Theoretical: Field visit Practical: Field visit Field visit		In en	Practical: Imperfect stages			Practical: Assignment and reporting Theoretical: a reporting Practical: a reporting		Short Tests, Duty Assignment, Discussions
15			TI Fi Pi	Theoretical: Field visit Practical: Field visit					
11	. Course Ev	aluation							
	Calendar Mo	ethods	Calen (Wee		ar Date	Grade		Relati	ive Weight%
1		Final Report + perience Reports		practical week Practical		oretical + 6 Il	13%		
2	Short Test (1) Quiz	Week	Veek (2-5) 4T		4Theoretical + 2 Practical		6%	
3		rm Exam half-test retical and practical)				oretical + 5 ıl	15%		
4		Short Test (2) Quiz		110011(> 1-)		4Theore	oretical + 2 6% cal		
5	Final Praction	tical Test 20		20			20%		
6	Final theore	Final theoretical test 4					40%		
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12	. Learning a	nd Teaching Res	ource	S	اعة والغابات ا	THE REAL PROPERTY.			
Req	uired textbooks	(curricular books, if	any)		Tawfig	7	ology / Mu		
Mair	n references (so	ources)					ch in the fic rinciples of		

Recommended by (scientific journals,	books reports.	and)	- Rev. APPli. Entomol. - J. Economic Entomology
Electronic References, Websites		Google research gate.Google scoler.	

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