field crop insects Course description of

1. Course name:
Field crop insects
2. Course code:
FICI424
3. Semester/Year: Annual
Spring semester/2023-2024
4. The date this description was prepared
1 / 2 / 2024
5. Available attendance forms:
My presence
6. Number of study hours (total)/number of units (total):
75 hours / 3.5 units
7. Name of the course administrator (if more than one name is mentioned)
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8- Course objectives
• the concept of field crop insects and the information that must be be able to define should . available to know the types of insects • .Choosing the suitability of factors affecting insects that infect crops • appropriate ones Differentiating between different planning systems and the • .Understand the basics of planning and use them in establishing an insect laboratory • Distinguishing between types of insects according to the information gained during studying . nd damagesthe nature of their infestation and identifying their shapes a • Familiarity with the information the trainee needs and what is available to him to master his . work in dealing with insects and determining the nature of the infestation • nd their environment and how to The student's awareness of the factors affecting insects a . diagnose, combat and control them • Determine the appropriate type and the best way to diagnose the infestation and know the type . insect and how to deal with it • insects, how to identify them, the nature of the A comprehensive study of the various types of . infestation, and the percentage of damage they cause to the crop
9- Teaching and learning strateg
- Interactive lecture - Brainstorming - Dialogue and discussion

- Field Training
- Practical exercises
- Field project
- education -Self

10- Course structure

week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
1	theoretical 1	a1: Identify the taxonomic position of insects : in the animal kingdom b1: knowledge and concepts of the Possesses : factors that helped the spread of insects	Taxonomic position of insects and their characteristics, factors that aided their spread	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Semester exam 1 , inal examf
	practical 3	a2: The student is introduced to the concept of entomology and the classification of insects	About entomology And classification of insects And insect body sections	Interactive lecture, brainstorming, dialogue and discussion, field learning -training, self	Short practical test 1
2	theoretical 1	a2 Determines the benefits and harms of : insects b1 Possesses the knowledge and concepts to : know the critical economic limit	Insect harms, benefits, critical economic limit of and infestation economic damage	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Semester exam 1 , final exam
	practical 3	a2: The student will be able to identify the : mouth parts of insects, their types, the area, and the parts abdominal area, the chest associated with it	Insect mouth parts Chest area Abdominal area	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Direct drawing
3	theoretical 1	a2 foundations of pest Determines the : resistance and control methods	pest resistance and control methods	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Semester exam 1 , final exam
	practical 3	a5: The student is distinguished by the types of reproduction in insects and the evolution of the insect	Types of reproduction in insects	Interactive lecture, brainstorming, dialogue and discussion, field learning -training, self	Field evaluation
4	theoretical 1	a2 insects Determines methods of controlling : that infect the Poaceae family c1: Draws up plans and programs to combat : it	pest control methods Practical (grass insects, description of the insect and form of (damage	Interactive lecture, brainstorming, dialogue -and discussion, self learning	emester S exam 1 , final exam report ,
	practical 3	b2: The student should be able to demonstrate his knowledge and research abilities in insects that infect the grass family. a2: The student should be able to classify insects that infect the grass family	Insects that infect agricultural crops Pests of the Poaceae family	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Practical short test 2 direct , drawing
5	theoretical 1	a2: methods of controlling Determines : insects that infect the Poaceae family c1: Draws up plans and programs to combat : it	Wheat and barley insects, their life cycles and control	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Semester , 1 exam final exam report ,
	practical 3	b5: The student should be able to develop his	Insects that infect	Interactive lecture,	Field

		cognitive and research abilities in insects that infect the grass family. a2: The student should be able to identify insects that infect the grass family	agricultural crops Pests of the Poaceae family	brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	evaluation
6	theoretical 1	First semester exam a2 methods of controlling insects Determines : that infect the Poaceae family c1: Draws up plans and programs to combat : it	First semester exam Insects that infect corn crops	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Short test, stfinal te
	practical 3	a2 The student should be able to describe concepts related to insects that infect crops a5: The student should be able to distinguish insects that infect the corn crop	Corn crop pests	Interactive lecture, brainstorming, dialogue discussion, field and training, practical -exercises, and self learning	Direct drawing and homework
7	theoretical 1	a2 Determines methods of controlling insects : that infect the Poaceae family c1: Draws up plans and programs to combat : it + the first exam	Rice insects , their life cycles, and control + first exam	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Semester exam 2 , final exam
	practical 3	a5: The student should be able to distinguish insects that infect the rice crop + semester exam	Rice crop pests + the first exam	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, field project, learning-self	Field project
8	theoretical 1	a2 Determines methods of controlling insects : that infect the leguminous family c1: Draws up plans and programs to combat : it	Insects of leguminous crops, their life cycles and control	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Semester exam 2 , final exam
	practical 3	b1: The student should be able to examine insects that infect the leguminous family	Pests of leguminous crops	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Direct drawing and homework
9	theoretical 1	a2 Determines methods of controlling insects : that infect the cotton crop c1: Draws up plans and programs to combat : it	Cotton crop insects , their life cycles and control	Interactive lecture, brainstorming, dialogue -discussion, self and learning	Semester exam 2 , final exam
	practical 3	a1: The student should be able to identify insects that infect the cotton crop	Cotton insects	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Direct drawing and homework
10	theoretical 1	a2 Determines methods of controlling insects : that infect sugar beets c1: Draws up plans and programs to combat : it	Sugar beet insects , their life cycles and control	lecture, Interactive brainstorming, dialogue -and discussion, self learning	Semester test 2
	practical 3	a1: The student should be able to distinguish insects that infect the sugar beet crop	Beet insects	Interactive lecture, brainstorming, dialogue	Direct drawing

				field ,and discussion training, practical -exercises, and self learning	and homework
11	theoretical 1	a2 Determines methods of controlling insects : that infect tobacco c1: Draws up plans and programs to combat : it	Sugar tobacco crop insects , their life cycles and control	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Final test
	practical 3	a1: The student should be able to describe the insects that infect the tobacco crop	Tobacco insects	Interactive lecture, dialogue ,brainstorming and discussion, field training, practical -exercises, and self learning	Direct drawing and homework
12	theoretical 1	a2 Determines methods of controlling insects : that infect the sunflower c1: Draws up plans and programs to combat : it	crop Sunflower insects , their life cycles and control	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Final test
	practical 3	b1: The student should be able to identify insects that infect the sunflower crop	Sunflower insects	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Direct drawing and homework
13	theoretical 1	a2 Determines methods of controlling insects : that infect castor beans c1: and programs to combat Draws up plans : it	Castor bugs , their life cycles and control	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Final test
	practical 3	a5: The student should be able to distinguish insects that infect the castor crop	Castor bugs	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Direct drawing and homework
14	theoretical 1	a2 Determines methods of controlling insects : that infect safflower c1: up plans and programs to combat Draws : it	Safflower insects , their life cycles, and control	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Short test, final test
	practical 3	b5 : The student is proficient in diagnosing insects that affect the safflower crop	Safflower insects	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Short practical test 3
15	theoretical 1	a2 Determines methods of controlling insects : that infect safflower c1: Draws up plans and programs to combat : it + Second exam	Safflower insects , their life cycles, and control + Second exam	Interactive lecture, brainstorming, dialogue -discussion, self and learning	Short test, final test
	practical 3	c1: The student must be ready to diagnose insects that affect the safflower crop + semester exam 2	Safflower insects + second exam	Interactive lecture, brainstorming, dialogue and discussion, field	Field project

				training, practical exercises, field project, learning-self	

1. Course evaluation

T	Calendar methods	(Calendar date (week	Class	Relative % weight
1	Short test(1)Quiz	the sixth week	2	2
2	Short test(2)Quiz	The fourteenth week	2	2
3	Semester test (1)	The seventh week	10	10
4	Semester test (2)	The eleventh week	10	10
5	Final theoretical test	Final semester exams	40	40
6	Report and discuss	The fifteenth week	5	5
7	Report and discuss	The third and fifth week	5	5
8	Short practical test (1)Quiz	The first week	2	2
9	Short practical test (2)Quiz	fourth week	2	2
10	Short practical test (3)Quiz	The fourteenth week	2	2
11	Final practical test	Final semester exams	20	20
	the total	100	100%	100%

2. Learning and teaching resources

(Required textbooks (methodology, if any	The theoretical book on field crop insects / written by Dr. Salem Jamil Girgi Dr. Hamza Kazem Abbas, and Dr. Muhammad Abdel Karim Muhammad
(sources) Main references	- The theoretical book on field crop insects / written by Dr. Salem Jamil Girgis, Dr. Hamza Kazem Abbas, and Dr. Muhammad Abdel Karim Muhammad
Recommended supporting books and references (scientific journals, (....reports	Pests of Field Crops and Pastures [OP]: Identification and Control / PT Bailey (Editor
Electronic references, Internet sites	https://www.amazon.com/Pests-Field-Crops-Pastures-Identification/dp/0643067582

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