1. Course name:
Field crop insects
1. Course code:
FICI424
1. Semester/Year: Annual
Spring semester/2024-2025
1. The date this description was prepared
1 / 2 / 2025
1. Available attendance forms:
Classroom
1. Number of study hours (total)/number of units (total):
75 hours / 3.5 units
1. Name of the course administrator (if more than one name is mentioned)
Dr. Khalid Omairy Mohammed khalidomairy73@uomosul.edu.iq Ammar Munaf Mohammed
1. Course objectives
• be able to define the concept of field crop insects and the information that must be should .available to know the types of insects • .Choosing the suitability of factors affecting insects that infect crops • between different planning systems and the appropriate ones Differentiating • .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 .infestation and identifying their shapes and damages the nature of their • 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 • factors affecting insects and their environment and how to The student's awareness of the .diagnose, combat and control them • Determine the appropriate type and the best way to diagnose the infestation and know the type of .insect and how to deal with it • various types of insects, how to identify them, the nature of the A comprehensive study of the .infestation, and the percentage of damage they cause to the crop
2. Teaching and learning strateg
- Interactive lecture - Brainstorming - Dialogue and discussion - Field Training

- Practical exercises
- Field project
- education -Self

3. Course structure

the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
1	٢ theoretical	a1 Identify the taxonomic position of insects in the animal kingdom : B1 knowledge and concepts of the factors that helped the spread of insects Possesses :	The phylum Arthropoda, its classes and characteristics. Describe insects, their general characteristics, and the factors that helped them spread.	Interactive lecture, dialogue ،brainstorming -and discussion, self learning	Semester ،١exam final exam
	٣ practical	a1 The student learns about the concept of entomology and insect classification :	Introduction to entomology and its classification. Parts and appendages of the external body of insects and their functions.	Interactive lecture, brainstorming, dialogue and discussion, field learning -training, self	Short practical ١test
2	١ theoretical	a2 Determines the benefits and harms of insects : b1 concepts to know Possesses the knowledge and : the critical economic limit	Insect harms, benefits, critical economic limit of infestation and economic damage	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Semester ،١exam final exam
	٣ practical	a2 student will be able to identify the mouth The : parts of insects, their types, the abdominal area, the chest area, and the parts 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
٣	١ theoretical	a2 Determines the foundations of pest resistance and control methods :	pest resistance and control methods	Interactive lecture, brainstorming, dialogue -self ،and discussion learning	Semester ،١exam final exam
	٣ practical	a2 The student will be able to identify the types of reproduction in insects and insect development :	Types of reproduction in insects	Interactive lecture, brainstorming, dialogue field ،and discussion learning -training, self	Field evaluation
٤	١ theoretical	a2 Determines methods of controlling insects that infect the Poaceae family : C4 Draws up plans and programs to combat it :	pest control methods Practical (grass insects, description of insect and form of the (damage	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Semester ،١exam final exam report ،
	٣ practical	d4 The student should be able to develop his cognitive and research abilities on insects that infect .the Poaceae family : c2: The student should be able to diagnose insects that infect the Poaceae 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 ٢short test direct ، drawing
٥	١	a2 Determines methods of controlling insects that :	Wheat and barley	Interactive lecture,	Semester

	theoretical	infect the Poaceae family c4 Draws up plans and programs to combat it :	insects, their life and control cycles	brainstorming, dialogue -and discussion, self learning	exam ١، final exam report،
	٣ practical	d4 The student should be able to develop his : cognitive and research abilities on insects that infect .family the Poaceae c2: The student should be able to diagnose insects that infect the Poaceae family	Insects that infect agricultural crops Pests of the Poaceae family	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -and self ،exercises learning	Field evaluation
٦	١ theoretical	First semester exam a2 Determines methods of controlling insects that : infect the Poaceae family C4 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, final test
	٣ practical	c58 The student should be able to master the concepts related to insects that infect crops c2: The student should be able to diagnose insects that infect the corn crop	Corn crop pests	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Direct drawing and homework
٧	١ theoretical	a2 Determines methods of controlling insects that : infect the Poaceae family C4 Draws up plans and programs to combat it :	Rice insects , their life cycles, and control	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Semester exam ٢، final exam
	٣ practical	c2: should be able to diagnose insects The student that infect rice crops	Rice crop pests	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, field project, learning-self	Field project
٨	١ theoretical	a2 of controlling insects that Determines methods : infect the leguminous family C4 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 ٢، final exam
	٣ practical	C2: The student should be able to diagnose 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
٩	١ theoretical	a2 Determines methods of controlling insects that : infect the cotton crop C4 Draws up plans and programs to combat it :	Cotton crop insects , their life cycles and control	Interactive lecture, dialogue ،brainstorming -and discussion, self learning	Semester exam ٢، final exam
	٣ practical	c2 The student should be able to diagnose insects : that infect the cotton crop	Cotton insects	Interactive lecture, brainstorming, dialogue and discussion, field practical ،training -exercises, and self learning	Direct drawing and homework
١٠	١ theoretical	a2 Determines methods of controlling insects that : infect sugar beets c4 Draws up plans and programs to combat it :	Sugar beet insects , their life cycles and control	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Semester test ٢
	٣ practical	c2 The student should be able to diagnose insects : that infect sugar beet crops	Beet insects	Interactive lecture, brainstorming, dialogue and discussion, field	Direct drawing and

				training, practical -exercises, and self learning	homework
١١	١ theoretical	a2 Determines methods of controlling insects that : infect tobacco C4 programs to combat it Draws up plans and :	Sugar tobacco crop insects , their life cycles and control	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Final test
	٣ practical	c2: The student should be able to diagnose insects crop that infect the tobacco	Tobacco insects	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Direct drawing and homework
١٢	١ theoretical	a2 Determines methods of controlling insects that : infect the sunflower C4 Draws up plans and programs to combat it :	Sunflower crop insects , their life cycles and control	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Final test
	٣ practical	c2 The student should be able to diagnose the : 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
١٣	١ theoretical	a2 controlling insects that Determines methods of : infect castor beans C4 Draws up plans and programs to combat it :	Castor bugs , their life cycles and control	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Final test
	٣ practical	c2 should be able to diagnose the The student : 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
١٤	١ theoretical	a2 methods of controlling insects that Determines : infect safflower c4 Draws up plans and programs to combat it :	Safflower insects , their life cycles, and control	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Short test, final test
	٣ practical	c2 The student should be able to diagnose insects : that infect the safflower crop	Safflower insects	Interactive lecture, brainstorming, dialogue and discussion, field training, practical -exercises, and self learning	Short practical ٣test
١٥	١ theoretical	Second semester exam	Second semester exam	Interactive lecture, brainstorming, dialogue -and discussion, self learning	Short test, final test
	٣ practical	٢Semester exam	٢Semester exam	Interactive lecture, brainstorming, dialogue discussion, field and training, practical exercises, field project, learning-self	Field project

4. Course evaluation

T	Calendar methods	(Calendar date (week	Class	Relative % weight

١	١Report	fourth week	٢.٥	٢.٥
٢	٢Report	The fifth week	٢.٥	٢.٥
٣	(١)Short test Quiz	sixth week	٢	٢
٤	(٢)Short test Quiz	The fourteenth week	٢	٢
٥	(٣)Short test Quiz	The fifteenth week	١	١
٦	(١)Semester test	the sixth week	٧.٥	٧.٥
٧	(٢)Semester test	The eleventh week is difficult	٧.٥	٧.٥
٨	test Final theoretical	Final semester exams	٤٠	٤٠
٩	Practical field project	The fifteenth week	٥	٥
١٠	Field evaluation	The third and fifth week	٢	٢
١١	(١)Short practical test Quiz	The first week	١	١
١٢	(٢)Short practical test Quiz	fourth week	٠.٥	٠.٥
١٣	(٣)Short practical test Quiz	The fourteenth week	١	١
١٤	Live drawings and homework	١٣and ١٢ ،١١ ،١٠ ،٩ ،٨ ،٦Weeks	٥.٥	٥.٥
١٥	Final practical test	Final semester exams	٢٠	٢٠
	the total	١٠٠	%١٠٠	%١٠٠

5. Learning and teaching resources

(methodology, if any) Required textbooks	The theoretical book on field crop insects / written by Dr. Salem Jamil Girgis, Dr. Hamza Kazem Abbas, and Dr. Muhammad Abdel Karim Muhammad
(Main references (sources	- The theoretical book on field crop insects / written by Dr. Jamil Girgis, Dr. Hamza Kazem Abbas, and Dr. Salem 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
references, Internet sites Electronic	https://www.amazon.com/Pests-Field-Crops-Pastures-Identification/dp/0643067582

Theoretical subject teacher
Dr. Khalid Omairy Mohammed

Practical subject teacher
Ammar M. Mohammed