Description of the course / forest insects

1. Course name:
Forest insects
2. Course code:
AGFO24_F2241
3. Semester/Year:
Second Semester/Second Stage/ 2024-2025
4. The date this description was prepared :
1/2/2025
5. Available attendance form
Blended learning
6. Number of study hours (total)/number of units (total)
2 hours theoretical/ 3 hours practical (5 hours)/3.5 units
7. Name of the course administrator (if more than one name is mentioned) :
Dr. Samer Ameer Hanna / Theoretical M. M Narmin Mahammd Ali / Practical
8. Course objectives
• The learner should be able to identify harmful and beneficial insects • Knowing the impact ofweather and climate on the spread and distribution of insects • Familiarity with the main causes that lead to insect epidemics • Identify the types of control programs that will reduce injuries below the level of economic damage • Distinguish between types of chemical insecticides and use the best ones • The learner's awareness of the taxonomic ranks of forest insect families, which saves time and effort when combating them • Determine the appropriate type of insect traps that can be used in forests and nurseries
9. TEACHING AND LEARNING STRATEGIES
- Interactive lecture - Brainstorming - Dialogue and Discussion - Field Training - Presentations of models of the body of insects - Assigning specific tasks and preparing reports on them - Self-learning - Practical Exercises

10. 10. Course Structure					
Week	**Hours**	**Learning outcomes required for the program***	**Unit or Topic Name**	**Learning method**	**Valuation Method**
1	2 Theoretical	A1 : Recognize the location and importance of taxonomic insects	Insect taxonomic site and its importance	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quiz1 Final Quiz
	3 Practical	A11: Identifies the most important classifications of insects	Taxonomic Rankings For insects	Interactive lecture, brainstorming, dialogue and discussion, field training, self-learning	"Little Things." Little taste. Yeah, let's run "Little Things."
2	2 Theoretical	A2 : Familiar with an introduction to forest entomology	Introduction to Entom Mossy Woods	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quarterly Quiz 1, Final Quiz
	3 Practical	A12: Familiar with insect collection methods	Methods of collecting	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	Direct application using available tools
3	2 Theoretical	A3: Identifies damage caused by insect pests in the forest	Damage caused by Firstly: Insect pests: (EXHALING) In the	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quarterly Quiz 1, Final Quiz
	3 Practical	A13 : Identifies insect antennae	Methods of keeping	Interactive lecture, brainstorming, dialogue and discussion, field training, self-learning	View Field
4	2 Theoretical	A4: Identifies vital factors affecting insect distribution	bio factors	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quarterly Quiz 1, Final Quiz,
	3 Practical	B3: Examine the area of the head in insects and its parts	Header Area In insects and its pa	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	Practical Quiz 2, Live Drawing

5	2 Theor etical	A5:Recognize forest insects control	Resistance to forest Forest insects Control	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quarterly Quiz 1, Final Quiz
	3 Practi cal	A13 : Identifies insect antennae	Antenna For insects	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	Views from live models
6	2 Theor etical	A6: Summarizes the impact of parasitism in insects	Insect parasitism	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quiz, Final Quiz
	3 Practi cal	B2: Explains the parts of the mouth in insects	Parts of the mouth in i	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	Direct drawing and homework
7	2 Theor etical	A7: Determines the impact of legislative control on the spread of insects	Legislative control	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quarterly Quiz 2, Final Quiz
	3 Practi cal	A15 : Mention the role of the chest and its accessories in insects	Wings in insects	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, field project, self-learning	Figure Presentati on
8	2 Theor etical	A8: Identifies direct biological control	|||UNTRANSLATED_ART||| المكافحة الحيوية|||UNTRANSLATED_END||| Direct Biological control	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quarterly Quiz 2, Final Quiz
	3 Practi cal	C4: Explains the presence of simple and compound eyes in insect species	Eyes in insects	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	Direct drawing and homework
9	2 Theor etical	C1: Analyzes how pesticides are divided according to how they enter the insect's body	Division of pesticides by How it enters the insect's	Interactive lecture, brainstorming, dialogue and discussion, self-	Quarterly Quiz 2, Final Quiz

			body	learning	
	3 Practical	C5 : Shows the function of the abdomen and its accessories in insects	Abdomen & Accessor	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	Direct drawing and homework
10	2 Theoretical	C2 : Uses scientific names to identify attractants and repellents	Attractants and repellents	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quarterly Quiz 2
	3 Practical	C6: Clarifies the functions of the legs and their parts	Legs in insects	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	Live Drawing Homework
11	2 Theoretical	C3: Explains the most important methods of integrated control	Integrated Resistance Integrated control	Interactive lecture, brainstorming, dialogue and discussion, self-learning	A final test
	3 Practical	C7: Chronology of insect phases	Evolution in insects	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	– Homework .
12	2 Theoretical	A9: Recognize the nature of nutrition in leaf food	Nutrition Natures in Leaf Food	Interactive lecture, brainstorming, dialogue and discussion, self-learning	A final test
	3 Practical	C8: Detects insect infestations with a scientific visit to the forest	Discovering insect ir forest in addition to	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	Direct drawing and homework
13	2 Theoretical	D1 : Moderates panel discussions on leaf-eating insect species	Insect species Not like knives, bec dull,	Interactive lecture, brainstorming, dialogue and discussion, self-learning	A final test
	3 Practical	A18 : Explains the ranks and ranks of insects	Under an insect que Wingless	Interactive lecture, brainstorming, dialogue and discussion, field	– Homework

				training, practical exercises, self-learning	.
14	2 Theoretical	B1: Looks for damage caused by leaf binders insects	Paper Associations	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quiz, Final Quiz
	3 Practical	A17: Classify winged insects	Under Row Winged Insects	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	"Little Things." Little taste. Yeah, let's run "Little Things."
15	2 Theoretical	A10: Describes bark, bark and wood bark insects/bark beetle species	Foreskin and Bark Insects wood / types of bark beetles	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quiz, Final Quiz
	3 Practical	A14: Identifies insects inside wing growth	- Really? Interior of the wings	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, field project, self-learning	"Little Things." Little taste. Yeah, let's run "Little Things."

11. Course Evaluation

This service allows customers to issue a permit	evaluation methods	Calendar Appointment (Week)	Degree	Relative Weight%
1	Report I	Week 4	2.5	2.5
2	Weather Report - %1 - %2	Week 5	2.5	2.5
3	Quiz (1)	Week 6	2	2
4	Quiz 2 (Islamic Translation)	Week 4	2	2
5	Quiz (3)	Week 5	1	1
6	- A midterm?	Week 6	7.5	7.5
7	- A midterm?	Week 11	7.5	7.5
8	Final theoretical test	senior year	40	40
9	Practical Field Drawing	Week 5	5	5
10	Laboratory assessment	Week 3	2	2

11	Practical Quiz (1) Quiz	Week 1	1	1
12	Practical Quiz (2) Quiz	Week 4	0.5	0.5
13	Practical Quiz (3) Quiz	Week 4	1	1
14	Direct Drawings and Homework	Weeks 6, 8,9,10,11,12 and13	5.5	5.5
15	Final Practical Test	senior year	20	20
	Total	100	100%	100%

12. Learning and Teaching Resources

Required textbooks (methodology if any	**Swailem , Saleh Muhammad and Ismail Najm al-Maarouf (1981) .Forest insects. Ministry of Higher Education and Scientific Research, Dar Al-Kutub Foundation for Printing and Publishing - Mosul University.**
Key References (Sources)	- None
Recommended supporting books and references (scientific journals, reports...)	None
E-References , Websites	https://www.noor-book.com/tag/ % D8% B9% D9% 84% D9 85-% D8% AD % D8% B4% D8% B1% D8% A7% D8% AA- D8% A7% D9% 84% D8% AB % D8% A7% D8% A8% D8 A7% D8%

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