

Module Description

Module Information			
Module Title	Integrated pest management		Module Delivery
Module Type	Core learning activity		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	IPM2110-AM		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGII	Semester of Delivery	
Administering Department	AGME1986	College	AGFO1964
Module Leader	Asist. Prof. Dr. Yousif Yakoub Hilal	e-mail	yousif.yakoub@uomosul.edu.iq
Module Leader's Acad. Title	assistant professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	1/9/2025	Version Number	1.0

Relation with other Modules			
Prerequisite module	BSS1050-AM	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	<ul style="list-style-type: none"> • Introducing students to the common types of pest and their effect on crops, and explaining their transmission methods and infection mechanisms. • Provide an understanding of the basic biology and ecology of pest, with an 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 pest , including the use of pesticides and advanced agricultural techniques such as biological control. • Analyze the economic and environmental impacts of pest, and study sustainable and

	<p>preventive management methods to reduce their impact on crops and the environment.</p> <ul style="list-style-type: none"> • Enhancing students' skills in planning and implementing field experiments and scientific studies to effectively treat and control caecilian infestations. • Encouraging students to research and interact with modern literature and research in the field of pest, and to contribute to developing innovative solutions to meet current challenges in this field
Module Learning Outcomes	<p>LO#1 :Understand the basic concepts of integrated management and identify examples of integrated management patterns.</p> <p>LO#2: Identify the types of pests</p> <p>LO#3:Identify the critical economic limit and the factors affecting it</p> <p>LO#4:Designing programs to manage major pests in our environment</p>
Indicative Contents	<p>1:The student is introduced to the concept of the history of Integrated pest management</p> <p>2:The student explains the importance of plant pest</p> <p>3:Gives examples of losses and damage caused by plant pest</p> <p>4: Learn about the concept of critical economic limit and the factors affecting it</p> <p>5: Learn examples of global integrated pest management programs</p> <p>6: Learn examples of integrated management programs for local pests</p>

Learning and Teaching Strategies

LO#2:The student explains the importance of plant diseases Discuss the Strategies	<ul style="list-style-type: none"> - Brainstorming • Teamwork • Discussion • Discovery learning • Problem solving or problem-based learning • E-Learning • Practical field training • Think, discuss, share
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Student Workload (SWL)

Structured SWL (h/sem)	63	Structured SWL (h/w)	4
Unstructured SWL (h/sem)	62	Unstructured SWL (h/w)	4
Total SWL (h/sem)	125		

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #2,LO #3
	Assignments	2	10% (10)	2 and 12	LO #1,LO #4
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	all
Summative assessment	Midterm Exam	2hr	10% (10)	7	all
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Knows the pest, its divisions, and its harms
Week 2	knows a historical overview of agricultural pests
Week 3	Number of survey methods and factors affecting the samples
Week 4	Write a report on injury estimation methods
Week 5	Write a report on agricultural pest infections
Week 6	Write a report on agricultural pest infections
Week 7	Knows the factors that must be taken into account when determining the critical economic limit
Week 8	Exam
Week 9	An Introduction to the Concept of Integrated Pest Management (IPM) for Plant Diseases.
Week 10	Methods of Resistance to Pathogens (Natural Resistance).
Week 11	The Concept of Biological (Biological) Control, Its Key Features, the Main Biological Factors in Control, and the Conditions for a Biological Agent.
Week 12	Physical Control.
Week 13	Chemical Control.
Week 14	Exam.
Week 15	Agricultural Applications in Integrated Management.
Week 16	Application of an Integrated Management Program for a Significant Disease Affecting Wheat and Barley (such as Yellow Rust) or Verticillium Wilt in Olive Trees..

Delivery Plan (Weekly Lab. Syllabus)

	Material Covered
Week 1	Lab 1: Discuss the different definitions of management.
Week 2	Lab 2: Note the different manifestations of economic losses and damages of various pests in the field.
Week 3	Lab 3: Observing the various manifestations of economic losses and damages of various pests in the warehouse
Week 4	Lab 4: Conducting a survey to determine the rates and levels of infection in the field in vegetable fields and seasonal crops
Week 5	Lab 5: Conducting a survey to determine the rates and levels of infection in the field in orchard fields.
Week 6	Lab 6: Visit different stores and determine the infection rates and the nature of the damage therein.
Week 7	Lab 7: Discussing reports written in the past weeks on the distribution of infections and their rates
Week 8	Lab 8: EXAM
WEEK 9	Lab 9: Discussing reports written in the past weeks on the distribution of infections and their rates
Week 10	Lab 10: Learn about some practical procedures within biological control
Week 11	Lab 11: Learn some practical procedures for chemical pest control
Week 12	Lab 12: View global programs in integrated pest management worldwide
Week 13	Lab 13: Learn about global programs to combat globally prevalent diseases.
Week 14	Lab 14: Programming the available capabilities to build local insect pest control programs
Week 15	Lab 15: Programming the available capabilities to build local pest control programs
Week 16	Exam

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	Integrated pest management	Yes
Recommended Texts	lectures.	Yes
Websites		

Grading Scheme				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX - Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F - Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



رئيس اللجنة العلمية
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