

Course Syllabus

1	Course title	Integrated Pest management (IPM)	
2	Course number	0606711	
3	Credit hours	3	
	Contact hours (theory, practical)	3	
4	Program title	MSc. In Plant protection	
5	Program code		
6	School	School of Agriculture	
7	Department	Department of Plant protection	
9	Course level	MSc	
10	Year of study and semester (s)	Fall semester (2020-2021)	
11	Other department (s) involved in teaching the course	/	
13	Main teaching language	English	
14	Delivery method	X Face to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online	
14	Online platforms(s)	<input type="checkbox"/> Moodle X Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom	
15	Issuing/Revision Date	11.11.2020	

17 Course Coordinator:

Name: Prof. Lara Ramzi Jaber	Contact hours: 10:30-11:30 Sunday, Tuesday, Thursday
Office number: 268	Phone number: 22514 Email: l.jaber@ju.edu.jo

18 Other instructors:

19 Course Description:

As stated in the approved study plan.

This course deals with the principles of integrated pest management, (concepts, ecological aspects, and economics of pest-management), tactics (emphasis on the cultural and biological means and the judicious use of pesticides), and strategies (proper sampling, measurements, analysis and modeling of

pest populations).

20 Course aims and outcomes:

A- Aims:

- 1) To provide a meaningful exposure to the principles and strategies of Integrated Pest Management (IPM).
- 2) To grasp the concept and enhance the application of IPM programs.
- 3) To better understand the management of new emerging technologies toward the ends of achieving higher productivity and enhancing environmental quality within the context of available inputs of more traditional technologies.

B- Students Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

PLOs	1	2	3	4	5	6	7	8
SLOs of the course								
A1- to learn more about the principles and strategies of Integrated Pest Management (IPM)	√	√						√
B1- to realize the several advantages and benefits of using IPM strategies for controlling pests	√	√	√					√
C1- to apply the variable IPM strategies for solving pest problems in an economic and environmentally-friendly means	√	√	√			√		√
D1- to pass and spread knowledge and skills related to IPM for managing different agricultural pests		√	√	√	√			√

PLOS

After the successful completion of this program student should be able to:

1. Implement the advanced concepts and processes in various disciplines in Plant Protection.
2. Extract information and findings of science from literature in Plant Protection.
3. Plan, conduct and analyze the results of scientific research.
4. Communicate effectively with his supervisors and colleagues orally and in writing.
5. Employ expertise and skills gained in the development production, research, and extension on different levels in the public and private sectors in Jordan and worldwide.
6. Engage efficiently in a scientific team work.
7. Publish research in the field of Plant Protection in peer-reviewed scientific journals.

8. Commit to ethics and compliance responsibilities for being an agricultural engineer, especially with regard to agricultural sector, environment and society.

21. Topic Outline and Schedule:

Week	Lecture	Topic	Intended Learning Outcome	Learning Methods	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
1-3	1.1	1. Introduction to IPM: <ul style="list-style-type: none"> - Definitions of IPM - Components of IPM - Benefits of IPM 	A1	Face to Face		Synchronous	Participation + assignments + Mid & final	1 + 2
	3.2							
3-6	3.1	2. Principles of IPM: <ul style="list-style-type: none"> - Decision categories - Decision making in IPM 	A1	Face to Face		Synchronous	Participation + assignments + Mid & final	1 + 2
	6.2							
7-12	7.1	3. Strategies of IPM: <ul style="list-style-type: none"> - Cultural - Physical/Mechanical - Host-Plant Resistance - Biological - Chemical 	A1, B1, C1, D1	Face to Face		Synchronous	Participation + assignments + Mid & final	1 + 2
	12.2							
13-15	13.1	4. IPM in the future	A1, B1, C1, D1	Face to Face		Synchronous	Mid & final	1 + 2
	15.2							

22 Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	SLOs	Period (Week)	Platform
Participation + assignments	10	All topics	A1, B1, C1, D1	All semester long	
Term paper + presentation	20	All topics	A1, B1, C1, D1	At the end of each topic	
Midterm exam	30	Weeks 1-8	A1, B1, C1, D1	26.11.2020	
Final exam	40	All topics	A1, B1, C1, D1	Will be announced later	

23 Course Requirements

students should have a computer, internet connection,

24 Course Policies:

A- Attendance policies:

<15% , <20% with a permission ; medical report

B- Absences from exams and submitting assignments on time:

- **Assignments will not be accepted after deadline**
- **Absence of exams with a medical report must be submitted following regulations and a makeup exam will be scheduled within one week**

C- Health and safety procedures:

- **Mask must be worn all the time in class and lab**
- **Social distancing**

D- Honesty policy regarding cheating, plagiarism, misbehavior:

E- Grading policy:

From (%)	To (%)	Scale	Mark	Result
0	54	0	C	Fail
55	59	2.5	C+	Good
60	64	2.75	B-	Very Good

65	74	3	B	Very Good
75	79	3.5	B+	Very Good
80	85	3.75	A ⁻	Excellent
86	100	4	A	Excellent

F- Available university services that support achievement in the course:

25 References:

A Required book (s), assigned reading and audio-visuals:

Text Books:

- Radcliffe, E. B., W. D. Hutchison and R. E. Cancelado (eds.) (2009) Integrated Pest Management: Concepts, Tactics, Strategies and Case Studies. Cambridge University Press
- Radcliffe's IPM World Textbook: <http://ipmworld.umn.edu>

References:

- Selected papers from classic and current literature
- Websites

26 Additional information:

Name of Course Coordinator: Prof. Lara Ramzi Jaber Signature: LRJ Date: 12/12/2024
Head of Curriculum Committee/Department: ----- Signature: -----
Head of Department: ----- Signature: -----
Head of Curriculum Committee/Faculty: ----- Signature: -----
Dean: ----- Signature: -----