

The University of Jordan

Faculty of Agriculture

Graduate Program

Department of Plant Protection

First Semester (2013-2014)

Integrated Pest Management (IPM) (0606711)

Credit hours	3	Level	Master	Pre-requisite	
Coordinator/Lecturer	Dr. Lara R. Jaber	Office number	268	Office phone	22514
Course website		Email	l.jaber@ju.edu.jo	Place	103

Office hours					
Day/Time	Sunday	Monday	Tuesday	Wednesday	Thursday
Day	-	-	*	*	*
Time	-	-	13-14	13-14	11-12

Course Description

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).

Learning Objectives

- 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.

Intended Learning Outcomes (ILOs)

Successful completion of the course should lead to the following outcomes:

A. Knowledge and Understanding: the student is expected to:

A1- to learn more about the principles and strategies of Integrated Pest Management (IPM)

B. Intellectual Analytical and Cognitive Skills: the student is expected to:

B1- to realize the several advantages and benefits of using IPM strategies for controlling pests

C. Subject-specific Skills: the student is expected to:

C1- to apply the variable IPM strategies for solving pest problems in an economic and environmentally-friendly means

D. Transferable Key Skills: the student is expected to:

D1- to pass and spread knowledge and skills related to IPM for managing different agricultural pests

ILOs: Learning and Evaluation Methods

ILOs	Learning Methods	Evaluation Methods
A. Knowledge and Understanding B. Intellectual Analytical and Cognitive Skills C. Subject-specific Skills D. Transferable Key Skills	Lectures, assignments, and discussion	Exams, term-papers, and presentations

Course Content

Content	Reference	Week	ILOs
1. Introduction to IPM: - Definitions of IPM - Components of IPM - Benefits of IPM	Articles, website, and textbook	1-3 weeks	A-1, B-1
2. Principles of IPM: - Decision categories - Decision making in IPM	Articles, website, and textbook	3-6 weeks	A-1, B-1
3. Strategies of IPM: - Cultural - Physical/Mechanical - Host-Plant Resistance - Biological - Chemical	Articles, website, and textbook	7-12 weeks	C-1, D-1
4. Strategies of IIPM in the future	Articles, website, and textbook	13-15 weeks	A-1, B-1, C-1, D-1

Learning Methodology

The course will be structured in lectures, assignments, presentations, and discussion

Evaluation

Evaluation	Point (%)	Date
Mid-term exam	30	End Nov/Beginning Dec
Term-paper+presentation	30	During lectures
Final exam	40	To be announced

Main References

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

Intended Grading Scale

From (%)	To (%)	Scale	Mark
0	61	2	C
62	65	2.5	C+
66	69	2.75	B-
70	77	3	B
78	81	3.5	B+
82	85	3.75	A ⁻
86	100	4	A

Notes

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<http://www.ju.edu.jo/rules/index.htm>