



Course Specification

Course title: Economic Entomology

Code: Ent. 401

Program (s) on which the course is given: Entomology (Chemistry)

Element of program : Major - Single ble

Department offering the program: Zoology Department

Department offering the course: Zoology Department

Academic year: 4th year.

Date of specification approval: 1/2016

A- Basic information

Academic year: 4 th	Course title: Economic Entomology		Code: Ent. 401
Lecture: 24 hours	Practical: 18 hours	Tutorial: 0 hours	Total: 42 hours

B- Professional information

1- Overall aims of course	This course aims to provide student with knowledge and understanding: - Acquire the theoretical background and experience of laboratory and field work aims to flash lights on harmful aspects of different insect families and species that will prepare them for future career in entomology.
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2-Intended learning outcomes of course (ILOs)

a-Knowledge and understanding	By the end of this course, students must be able to: a1-Explain the economic importance of insect pests
b-Intellectual skills	b1- Assess piece of information in the light of economic importance of insect pests by recent advances in entomology and chemistry b2- Select procedure to deal with economic importance of insect

	pests.
c- Professional and practical skills	c1- Use the correct method in dealing with insect pests such as sample size. c2- Prepare the insect samples for examination and identification.
d- General and transferable skills	d1- Use information and communication technology effectively d2- Work in group, and communicate with others positively. d3- Address the community linked problems such as harmful insect pests with attention to the community ethics and tradition.

3- Contents:

Topic	No. Hours/ week			
	Lecture	Practical	Tutorial	Total
- Pest Definitions: a. Definitions b- Development of pest status	4	0	0	4
- Damage caused by Insects: a. Indirect damage b- Direct damage	4	0	0	4
- Cotton pest.	6	6	0	12
- Pests of Corn, Wheat and Sugar Cane	6	6	0	12
- Pests of Fruit Trees	2	2	0	4
- Stored grain Pests & Wood borer	2	2	0	4

4- Teaching and learning methods

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| (4)1- Teaching lectures
(4)2- laboratory lessons
(4)3- reports
(4)4- Problem based learning
(4)5- Seminars |
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5- Student assessment:

5.1. Methods	5.1.1. Exam (periodical & final)	- To assess: knowledge & understanding - Intellectual skills
	5.1.2. Oral assessment	- To assess: knowledge & understanding - Intellectual skills
	5.1.3. Practical evaluation	- To assess: Professional & practical skills
	5.1.4. Work activities.	To assess: general & and transferable skills.
5.2. Assessment schedule	Assessment 1: Short exam Final written exam	- Along the term - Week: according to faculty's exam schedule
	Assessment 2: Oral exam	- Week: 7
	Assessment 3: Final lab exam	- Week: 10

9- Curriculum map

Contents	Weeks	Course ILOs				Teaching & learning methods	Assessment methods	Evidence
		a	b	c	d			
- Pest Definitions: Definitions Development of pest status		a1	b1		d1 & d3	- Lectures - Sections - Report	- semester Exam - Written and Oral	- Oral Discussions - Final exam
- Damage caused by Insects Indirect damage Direct damage		a1	b1 & b2	c1 & c2	d1, d2 & d3	- Lectures - Sections - Report	Exams - Essay	
Cotton Pests		a1	b1 & b2	c1 & c2	d1, d2 & d3	- Lectures - Sections - Report		
Pests of Corn, Wheat and Sugar Cane		a1	b1 & b2	c1 & c2	d1, d2 & d3	- Lectures - Sections - Report		
Pests of Fruit Tree		a1	b1 & b2	c1 & c2	d1, d2 & d3	- Lectures - Sections - Report		
Stored grain Pests & Wood borer		a1	b1 & b2	c1 & c2	d1, d2 & d3	- Lectures - Sections - Report		

Course coordinator:

1. Name: Ass. Prof. Neama Ahmed Abdelhamid

Co-Coordinator:

2. Name: Dr. Doaa Saad Farghaly

Head of Zoology Department:

Prof. Dr. Zinab Aid