



Course Specifications

Course Title:	Economic Entomology
Course Code:	2013202-3
Program:	Bachelor in Zoology
Department:	Biology Department
College:	College of Sciences
Institution:	Taif University

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A. Course Identification

1. Credit hours: 3hr
2. Course type
a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: 9th level / 3rd year
4. Pre-requisites for this course (if any): Entomology (2013102-3)
5. Co-requisites for this course (if any): None

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	6 hours /week	100%
2	Blended	-	-
3	E-learning	-	-
4	Distance learning	-	-
5	Other	-	-

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	30
2	Laboratory/Studio	30
3	Tutorial	-
4	Others (specify)	-
	Total	60

B. Course Objectives and Learning Outcomes

1. Course Description:

This course deals with studying the identification of economic insects either harmful or beneficial; the insects infecting field crops, vegetables, fruits and stored products; medical and veterinary insects; and beneficial insects.

2. Course Main Objective:

By the end of this course, the student acquire an appropriate background about traditional economic entomology emphasizing pest insect threshold and symptoms as well as aspects of insects life cycles and control.

3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	Knowledge and Understanding:	
1.1	Memorize the classification of economic insects	K2
2	Skills:	
2.1	Evaluate the insect economically, types of insect metamorphosis and harmful or beneficial stages of its life cycle	S1

CLOs		Aligned PLOs
2.2	Explain gained scientific knowledge and predict solutions for managing the important insects attacked crops, animals and human	S3
3	Values:	
3.1	Work in groups, interact with each other and cooperate with colleagues to get practical experience	V1
3.2	Develop plan for academic and professional self-development	V2

C. Course Content

No	List of Topics	Contact Hours
1	Chapter 1: Introduction to economic insects	4L+6P
2	Chapter 2: General insect pests	4L+6P
3	Chapter 3: Insect pests on field crops	4L+6P
4	Chapter 4: Insect pests on vegetables	4L+6P
5	Chapter 5: Insect pests on fruits	4L+6P
6	Chapter 6: Insect pests on stored products	4L+6P
7	Chapter 7: Medical and veterinary insects	2L+3P
8	Chapter 8: Beneficial insects	4L+6P
Total		30L+45P

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding:		
1.1	Memorize the classification of economic insects	Lectures and open discussion	Paper-based exams
2.0	Skills:		
2.1	Evaluate the insect economically, types of insect metamorphosis and harmful or beneficial stages of its life cycle	Lectures and open discussion	Final practical exam
2.2	Explain gained scientific knowledge and predict solutions for managing the important insects attacked crops, animals and human	Lab activities Brain storming	Practical reports
3.0	Values:		
3.1	Work in groups, interact with each other and cooperate with colleagues to get practical experience	Small group assignments	Activities
3.2	Develop plan for academic and professional self-development	Student presentation	Activities

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Activities	Continuous	10
2	Midterm Exam	5 th	20
3	Periodic Exam	7 th	10
4	Practical reports	Continuous	10
5	Final Practical Exam	11 th	10
6	Final Exam	12 th	40

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

6 hours per week (as defined in the teaching schedule of the faculty member) for academic advice and consultations. Teaching staff is also available using Blackboard web site and Taif University “Educate” System.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	- <i>Economic Entomology</i> . Gamal El-Saeid, press, Taif University 2010. KSA - <i>A Text-book of Economic Entomology</i> . Mohamed Dayib Abubakar, Somali Natural Resource Research Centre, 2018
Essential References Materials	- Insect Behavior
Electronic Materials	- Blackboard website - Website of Saudi digital Library
Other Learning Materials	- http://www.agricomseeds.net/por/plagas.php - http://home. Tiscali.be/entomart.ins/tablevisuorders.html

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom (capacity not more than 40 students) for 2 h/week - Zoology Lab (capacity not more than 20 students) for 3 h/week
Technology Resources (AV, data show, Smart Board, software, etc.)	Data show, Laptop
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Permanent slides, Preserved specimens

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching: - Written evaluation comments - Small group discussion	- Students - Students	- Direct - Indirect
2. Other Strategies for Evaluation of Teaching by the Instructor or by the Department: - Evaluation of CR by the program instructor - Colleagues open discussion - Asking one of my colleagues to attend my lectures to get a feedback on the teaching strategies and tactics	Staff member	Direct
3. Processes for Improvement of Teaching: - Enhancing personalised learning - Provide activities of sufficient variety and depth to allow different levels of learning to take place - Differentiate by using various starting points and tasks for different ability levels - Carefully plan realistic deadlines so that all students have a sense of achievement - Continuously assess teaching groups and give feedback about their learning and their successes	Staff member	Direct
4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution): - Assigning group of independent faculty members to check and re-evaluate the assessment methods and samples of student reports (Faculty from other institutions are invited to review the accuracy of the grading policy) - Evaluate the response of students to interact with the course instructor throughout the blackboard system	Staff member	Direct
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement: - Reviewing the CS and CR by the consultant committee which will be constructed and included external staff members from other institutions and from industry - Analyze feedback results of the graduated student and stakeholder questioners - Consult colleagues who have taught the same or similar courses to learn from their strategies	Staff member	Direct

Evaluation Areas/Issues	Evaluators	Evaluation Methods
and their general impressions of the students who typically take the course - To modify the goals for the course - To modify teaching methods used		

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Biology Department
Reference No.	Committee number 14 - Academic Year 1442-1443H
Date	22 /5/2022G – 14/11/1443H

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