



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Entomology							
Course Code		BKR103		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 ( <i>Hours</i> )	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The problems in production of plants because of insects could be recognized truly and quickly. The problems could be controlled by means of this course.							
Course Content		Morphology, systematic and biology of Insect and agricuktural pest managements							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Ins. Hüseyin YERLİKAYA							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	Instructor lecture notes
2	Presentations and Lecture Notes Compiled From Different Sources
3	Kansu, A. 1994. Genel Entomoloji,
4	Omurgasızlar, Böcekler, Entomoloji. Cilt II
5	Anadolu Üniversitesi, Açıköğretim Fakültesi, Entomoloji Ders Kitabı.

Week	Weekly Detailed Course Contents	
1	Theoretical	The systematic place of insects and the economic importance of insects and the external structure of insects (body wall, head, thorax, abdomen) are discussed. (mouth structures, leg types, abdomen protrusions)
2	Theoretical	Insect taxonomy (Apterygota and Pterygota)
3	Theoretical	Insect taxonomy; insect orders and their characteristics
4	Theoretical	Internal organs structure and functioning of insects
5	Theoretical	Sense organs and their functions in insects
6	Theoretical	Reproduction in insects
7	Theoretical	Concepts related to metamorphosis and biological periods in insects (larvae, pupa types)
8	Intermediate Exam	Midterm Exam
9	Theoretical	Insect behaviors and orientations (light, color, smell, etc.)
10	Theoretical	Insect ecology and ecological factors
11	Theoretical	Basic principles of pest control
12	Theoretical	Control methods against agricultural pests (Cultural measures, Physical, Mechanical control)
13	Theoretical	Control methods against agricultural pests (Biotechnical and Biological control)
14	Theoretical	Control methods against agricultural pests (Chemical control)
15	Theoretical	Mites and Nematodes (Biology, Morphology and Damage patterns)

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	1	12	0	12
Laboratory	2	0	6	12
Midterm Examination	1	9	1	10



Final Examination	1	9	1	10
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	To be able to learn location of insects in the animal kingdom, injury of insect pests, role of useful insects in agriculture.
2	To be able to learn general morphological features, reproduction and growing of insects.
3	To be able to understand insects relationship with environments and each other.
4	To be able to learn and apply and teach of control methods with insect pests.
5	To be able to recognize entomological problem of a region or country.
6	To be able to solve problems which are appear suddenly because of insects.

### Programme Outcomes (Plant Protection)

1	To be able to learn about systematics, morphological, biological, ecological and epidemiological information about diseases, pests and weeds that cause the loss of the crop at every stage of production,
2	To be able to become familiar with agricultural management control methods and their use in control of plant diseases, pests and weeds in cultivated agricultural crops,
3	To be able to diagnose and identify plant diseases, insect, mite or nematode pests or weeds that cause economical losses in stored crops and products,
4	To be able to use pesticides safely and effectively and informed about their hazardous non-target effects on the environment and human health.
5	To be able to learn plant protection products and their practice in organic agriculture,
6	To be able to evaluate the information obtained throughout the learning process with cause-effect relations, to be able to collect data and transfer the results to practice, and to predict where, when and why to use the information
7	To be able to comply with professional, cultural, social ethic rules in his / her field and to be entrepreneurial
8	To be able to have conscious of the universality of social rights, social justice, quality and cultural values, environment protection, occupational health and safety issues
9	To be able to use information and communication technologies together with the required computer software of his / her field
10	To be able to have the necessary background and qualifications to work in public and private agriculture sectors, to be able to conduct a study independently / as a team member and to be able to comply with the relevant legislation

### Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5	L6
P1	4	4	4	4	5	4
P2	4	4	4	4	5	4
P3	5	4	4	4	4	4
P4	4	4	4	4	4	4
P5	4	4	4	4	4	4
P6	4	4	3	3	3	2
P7		2	1	1	1	2
P10	5	4	4	4	4	4

