



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Insect Ecology							
Course Code		BKR209		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The aim of the course is to give knowledge about how agricultural pests is impressed by environmental conditions and provide their ability of evaluate about knowledge within the scope of plant protection.							
Course Content		Definition of ecology, base theories and concepts, subject and subdivision of ecology, autoecology, abiotic and biotic factors.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Prof. Özgür GÜÇLÜ							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Course notes of lecturer
2	Presentations and Lecture Notes Compiled From Different Sources
3	Böcek Çevrebilimi I. Birey Ökolojisi (Prof. Dr. İ.Akif KANSU)

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition of ecology, base theories and concepts
2	Theoretical	Subject and subdivision of ecology, autoecology
3	Theoretical	Overage of reproductive of pests
4	Theoretical	Being high of survival ability of pests
5	Theoretical	Effect of environmental factors on pests, abiotic factors, temperature,water
6	Theoretical	Climatic ecological factors, wind
7	Theoretical	Climatic ecological factors, photoperiod, atmosphere gases, gravity and atmospheric pressure
8	Intermediate Exam	Midterm exam
9	Theoretical	Climatic ecological factors, photoperiod, atmosphere gases, gravity and atmospheric pressure
10	Theoretical	İklimsel olan çevre faktörleri, Fizikokimya ve toprak
11	Theoretical	Biotic factors, food factor
12	Theoretical	Biotic factors, interrelations of organisms, competition, commensalism, mutualism, parasitoidism
13	Theoretical	Biotic factors, population density
14	Theoretical	Biotic factors, reasons of epidemiology
15	Theoretical	Biotic factors, reasons of epidemiology

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Individual Work	1	2	0	2
Midterm Examination	1	9	1	10
Final Examination	1	9	1	10
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	To be able to adapt base ecological theories and concepts on agricultural pest life cycle
2	To be able to comprehend effects of ecological factors on pests
3	To be able to comprehend relationships between ecological factors and pests and explicating it in terms of plant protection
4	To be able to establish relationship between ecological factors and population of pests
5	To be able to evaluate effect of ecological factors in application plant protection methods

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
P1	4	3	3	4	4
P2	4	3	4	2	3
P3	3	3	4	3	2
P4	3	2	2	3	2
P5	5	2	2	3	2
P6	2		2		1
P10	2			4	1

