



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Insect Ecology and Epidemiology							
Course Code		ZBK524		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	204 ( <i>Hours</i> )	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		the aim of this course is to teach the relations between insects and biotic- abiotic environment							
Course Content		in this course reasons that why insects are more abundance and widespread than other animals, factors effecting distribution, biotic and abiotic factors limiting insect populations are examined, reasons of epidemics and affecting ecological factors are explained.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study					
Name of Lecturer(s)		Prof. Hüseyin BAŞPINAR							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Önder, F., 2004. Bitki Zararlılarının Ekolojisi ve Epidemiyolojisi. ISBN 975-98739-0-7. Bornova, İzmir, 81 s.
2	Price, P. W., 1997. Insect Ecology. John Wiley&Sons Inc., New York, 868 pp.
3	Kocataş, A., 1994. Ekoloji ve Çevre Biyolojisi. E.Ü. Fen Fakültesi Ders Kitapları Serisi No: 142.

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction and definitions
2	Theoretical	Factors of insect abundance and distribution: Potention in reproduction and ability to stay alive
3	Theoretical	Environmental factors affecting insect populations: Abiotic factors; temperature
4	Theoretical	Environmental factors affecting insect populations: Abiotic factors; water and moisture
5	Theoretical	Environmental factors affecting insect populations: Abiotic factors; joint effect of climatic factors, light, wind, atmosphere gases, gravitation, soil
6	Theoretical	Environmental factors affecting insect populations: Biotic factors; food
7	Intermediate Exam	Mid Term Exam
8	Theoretical	Environmental factors affecting insect populations: Biotic factors; competition
9	Theoretical	Environmental factors affecting insect populations: Biotic factors; parasitism and predation
10	Theoretical	Environmental factors affecting insect populations: Biotic factors; parasitism and predation
11	Theoretical	Effects of agricultural practices on insect populations
12	Theoretical	Effects of industry on insect populations
13	Theoretical	Reasons of insect epidemics, and phase of epidemics
14	Theoretical	Practices to prevent insect epidemics
15	Theoretical	General review
16	Final Exam	Final Exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	2	70
Term Project	14	3	2	70
Midterm Examination	1	30	1	31



Final Examination	1	32	1	33
Total Workload (Hours)				204
[Total Workload (Hours) / 25*] = <b>ECTS</b>				8
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	to be able to recognize the reasons of insect abundance
2	to be able to recognize the ecological factors affecting insect populations
3	to be able to define the reasons that why insects are becoming pests
4	to be able to find out the ways to analyze epidemics
5	to be able to gain skills to use benefit control methods more efficiently in pest control

### Programme Outcomes (Plant Protection Master)

1	To develop knowledge and abilities that gained during undergraduate education
2	To gain ability to search and pursue current literature
3	To gain ability to plan and write projects that help solving problems in field of study.
4	To gain ability to conduct research, analyze data, evaluate research results scientifically and prepare reports and thesis writing.
5	Students will be able to learn and apply the laboratory test and analysis methods
6	To recognize occupational and ethical responsibility

### 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	3	3	3	2	3
P2	1	1	1	1	1
P3	4	4	4	4	4
P4	5	5	5	5	5
P5	4	4	4	4	4
P6	3	3	3	3	3

