



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Biopesticides							
Course Code		ZBK617		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	175 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The objective of the course is to provide students with knowledge of biopesticides used for commercial purposes in the world. It provides students basic knowledge of pesticides such as: spectrum of biopesticides, their mechanisms of action, formulations, application techniques, compatibility with chemical pesticides, applicability to IPM programs, possible effects on environment and human health and their registration procedures of biopesticides in the world							
Course Content		The objective of the course is to provide students with knowledge of biopesticides used for commercial purposes in the world. It provides students basic knowledge of pesticides such as: spectrum of biopesticides, their mechanisms of action, formulations, application techniques, compatibility with chemical pesticides, applicability to IPM programs, possible effects on environment and human health and their registration procedures of biopesticides in the world							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion					
Name of Lecturer(s)		Assoc. Prof. Ümit ÖZYILMAZ							

### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	Hall, F. R and Menn J.J. Biopesticides, Humana Press, 1999, ISBN 0-89603-513-8
2	Burges, H. D. Microbial Control of Pests and Plant Diseases, 1970-1980, Academic Press, ISBN: 0121433609
3	<a href="http://www.epa.gov/pesticides/biopesticides/ingredients/index.htm">http://www.epa.gov/pesticides/biopesticides/ingredients/index.htm</a>
4	<a href="http://www.nysaes.cornell.edu/ent/biocontrol/">http://www.nysaes.cornell.edu/ent/biocontrol/</a>

Week	Weekly Detailed Course Contents	
1	Theoretical	a
2	Theoretical	a
3	Theoretical	a
4	Theoretical	a
5	Theoretical	a
6	Theoretical	a
7	Theoretical	a
8	Intermediate Exam	Midterm
9	Theoretical	a
10	Theoretical	a
11	Theoretical	a
12	Theoretical	a
13	Theoretical	a
14	Theoretical	a
15	Final Exam	Final Exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Term Project	1	16	1	17
Midterm Examination	1	50	1	51



Final Examination	1	50	1	51
Total Workload (Hours)				175
[Total Workload (Hours) / 25*] = ECTS				7
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	
2	
3	
4	
5	

### Programme Outcomes (Plant Protection Doctorate)

1	Students improve their knowledge and skill previously gained during first cycle and second cycle programs and become a specialist their own discipline
2	Students gain knowledge and experience for using new techniques and equipments in their own discipline.
3	Students gain ability to plan and conduct scientific projects in their own discipline by using current knowledge and techniques, and to collect and analyze data and make inference on the results .
4	Students gain ability to write scientific articles and prepare them for publications and to make oral or poster presentations in scientific meetings.
5	Students gain ability to review scientific articles and projects relevant to their own discipline.
6	Students gain experiences how to get effective position in national and international projects.
7	Students gain experience for participating in and organizing scientific meetings.

### 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	3	3
P2	4	4	4	4	4
P3	5	5	5	5	4
P4	5	5	5	5	4
P5	5	5	5	5	4
P6	5	5	5	4	4
P7	4	4	4	4	4

