



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Plant Disease Resistance							
Course Code		ZBK604		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	175 ( <i>Hours</i> )	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		In this course, the definition of plant disease resistance and the main types of resistance and their use will be discussed. The mechanisms of resistance in plants will be examined and host and pathogen genes, structures and functions will be taught by examples.							
Course Content		In this course, definition of plant disease resistance and gene theory against gene, resistance and defense mechanisms in plants are explained in detail. In plants, the types of endurance and the genes and structures involved in endurance are given.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Project Based Study, Individual Study					
Name of Lecturer(s)									

### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	FRASER, R.S.S. Mechanisms of resistance to plant diseases. Kluwer Academic Publishers, Dordrecht, Boston and London. 1985
2	VAN DER PLANK, J.E. Disease resistance in plants. Academic Press, New York, London. 1968
3	Hammond-Kosack .K. E. and Jones, J. D. G. 1997. Plant Disease Resistance Genes. Annu. Rev.PlantPhysiol. PlantMol. Biol. 1997. 48:575–607
4	Leong S. A., Allen, C., and Triplett, E. W. Biology of Plant-Microbe Interactions Vol.3

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

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	3	98
Term Project	1	1	35	36
Midterm Examination	1	16	1	17



Final Examination	1	23	1	24
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	4	3	3	3
P2	4	4	4	4	4
P3	4	3	4	4	5
P4	5	4	5	5	4
P5	4	4	5	4	5
P6	5	4	4	4	4
P7	3	4	3	4	4

