

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Molecular Plant Pathology								
Course Code ZBK607			Couse Level		Third Cycle (Doctorate Degree)				
ECTS Credit 7	Workload 1	75 (Hours)	Theory		3	Practice	0	Laboratory	0
Objectives of the Course  This course will explore the modern molecular techniques being used to investigate plant/microbe interactions and will examine the way in which pathogens cause disease.						obe			
Course Content  The contents encompass the genetic of the host-pathoge extraction-isolation, norther hybridization, dot-blot hybrid amplification tecniques: po gene expression. Character resistance are discussed.			n interac n blot and dization. ymerase	tion, patl alysis DN Labelling chain re	noger IA ex and s actior	nic determinan traction-isolati storage of nuc n. Genome and	ts are defined on, southern leic asid prob alysis by RFL	d. Identification of blot analysis DN bes. Nucleic acid P and RAPD, cl	of by RNA A/RNA oning and
Work Placement N/A									
Planned Learning Activities and Teaching Methods		ethods	Explana	ation (Pre	senta	tion), Discussi	on		
Name of Lecturer(s)									

Assessment Methods and Criteria							
Method	Quantity	Percentage (%)					
Midterm Examination	1	40					
Final Examination	1	60					

Recor	Recommended or Required Reading						
1	Goosen, T. And Debets, 1996. Molecular genetic analysis. In: Fungal Genetic: Principles and practice, Bos, C.J. (ed.) Marcel Dekker, New York, pp.97-117.						
2	Berger S.L. Guide to Molecular Cloning Techniques Academic Pres						
3	Tower K.J. and A. Cockayne 1993. Molecular Methods for Microbial Identification and Typing. Chapman and Hall						
4	Gurr S.J. and D.J. Bowles 1992 Molecular Plant Pathology Volume I, II,A Practical Approach, At Oxfort Univ.Press						

Mook	Weekly Detailed Cour	on Contanta
Week	Weekly Detailed Cour	se Contents
1	Theoretical	a
2	Theoretical	a
3	Theoretical	a
4	Theoretical	a
5	Theoretical	a
6	Theoretical	a
7	Intermediate Exam	Midterm
8	Theoretical	a
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
Assignment	2	25	2	54
Quiz	1	10	1	11
Midterm Examination	1	35	1	36



Final Examination	1		45	1	46	
Total Workload (Hours)				175		
[Total Workload (Hours) / 25*] = <b>ECTS</b>				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.
- 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	5
P4	4	4	4	4	4
P5	5	5	5	5	5
P6	4	4	4	4	4
P7	4	4	4	4	4

