



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Phytoplasmal Diseases							
Course Code		ZBK552		Couese Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	200 ( <i>Hours</i> )	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		Main symptom types of phytoplasmal diseases, vector transmission, detection of phytoplasmas by classical and molecular methods will be taught in this course.							
Course Content		In this course, classical and molecular methods of phytoplasma, vectors and vector transport will be discussed.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	20
Final Examination	1	50
Practice	1	30

### Recommended or Required Reading

1	Agrios, G.N. 2005. Plant Pathology, Elsevier Academic Press.
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Week	Weekly Detailed Course Contents	
1	Theoretical	Discovery of phytoplasmas, their history, morphology and structure
2	Theoretical	Entry of phytoplasmas to plants: Vectors (Parasite plants, insects) and acquisition and transmission of phytoplasmas by insects
3	Theoretical	Symptomatology of phytoplasma diseases
4	Theoretical	Classical diagnosis of phytoplasma diseases
5	Theoretical	DNA isolation from diseased plants
6	Theoretical	DNA isolation from diseased plants
7	Theoretical	DNA isolation from diseased plants
8	Intermediate Exam	Exam
9	Theoretical	Detection of phytoplasmas by PCR method
10	Theoretical	Detection of phytoplasmas by PCR method
11	Theoretical	Detection of phytoplasmas by nested PCR method
12	Theoretical	Detection of phytoplasmas by nested PCR method
13	Theoretical	PCR-RFLP method
14	Final Exam	Final

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Lecture - Practice	14	1	2	42
Assignment	2	5	1	12
Term Project	2	20	0	40
Quiz	2	10	1	22
Midterm Examination	1	15	1	16
Final Examination	1	25	1	26
Total Workload (Hours)				200
[Total Workload (Hours) / 25*] = ECTS				8

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	Learn about phytoplasmal diseases of plants
2	Learn classification of phytoplasmas
3	
4	Learning the phytoplasma diagnostic method
5	Learn control methods of phytoplasma diseases

**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	4	4	4	4
P2	4	3	4	3	3
P3	4	4	4	4	4
P4	4	4	4	4	5
P5	3	3	4	4	5
P6	3	3	3	4	4

