



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Laboratory Techniques in Phytobacteriology							
Course Code		ZBK519		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	200 ( <i>Hours</i> )	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The course aims to teach basic laboratory techniques in the field of classical bacteriology and plant pathogen bacteria.							
Course Content		Methods of isolation of plant pathogenic bacteria from disease plants, media and cultivation methods, bacterial counting, inoculum preparation, pathogenicity and inoculation methods, disease counting and evaluation, basic laboratory applications including biochemical tests and diagnostic keys.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Individual Study					
Name of Lecturer(s)		Assoc. Prof. Zahide ÖZDEMİR							

### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	Saygılı, H., Fitobakteriyoloji, Ege Üniv. Zir. Fak. Doğruluk Matbaası, 1995, İzmir.
2	Klement, Z. K. Rudolph, D. C. Sands (1990) Methods in Phytobacteriology, Akademiai Kiado, Budapest, ISBN-963-05-4955-7.
3	Schaad, N. W. J. B. Jones, W. Chun, Laboratory Guide for Identification of Plant Pathogenic Bacteria, APS Press, St. Paul, Minnesota, ISBN-0-89054-263-5

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	2	2	56
Lecture - Practice	14	3	2	70
Midterm Examination	1	34	1	35
Final Examination	1	38	1	39
Total Workload (Hours)				200
[Total Workload (Hours) / 25*] = ECTS				8

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	
2	
3	
4	
5	

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

