



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Virology							
Course Code		ZBK553		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	196 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		Explain all the features of plant viruses to cause disease.							
Course Content		Brief history of plant virology, economic importance of virus diseases of plants, how plants get sink, physico-chemical properties of plant viruses, nomenclature classification, origins and evolotion, replication , transmission and movement, effect on plant metabolism, detection and diagnosis methods and plant virus disease control are explained.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Matthews R.E.F. 1981 Plant Virology, Academic Press Inc, London 897s
2	Agrios 1998 Plant Pathology 563s
3	Bos L. 1983 Introduction to Plant Virology Longman London and New York 153s
4	Stevens W.A. 1983 Virology of Flowering Plants Blackie Glasgow and London 175s

Week	Weekly Detailed Course Contents	
1	Theoretical	What is a virus, definition of a virus, brief history of plant virology, nomenclature classification, origins and evolution, the groups of plant viruses
2	Theoretical	Symptoms of plant virus infection
3	Theoretical	How plants get sink
4	Theoretical	Effect of plant metabolism
5	Theoretical	Transmission of plant viruses
6	Theoretical	Transmission of plant viruses
7	Intermediate Exam	Sınav
8	Theoretical	Physical and Biochemical structure of plant viruses
9	Theoretical	Plant virus structure, biochemistry of plant virus, virus architecture
10	Theoretical	Replication and movement
11	Theoretical	Variability, inactivation
12	Theoretical	Serology and electron microscopy
13	Theoretical	Detection and diagnosis
14	Theoretical	Economic importance, ecology and plant virus diseases control
15	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Lecture - Practice	14	3	2	70
Assignment	10	3	4	70
Total Workload (Hours)				196
[Total Workload (Hours) / 25*] = ECTS				8

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	Molecular plant pathogens, viruses that cause diseases in plants to learn by observing the characteristic symptoms
2	Collect and store samples of virus infected plant
3	Plant viruses on the host plant to the culture
4	Plant viruses on the host plant to the culture
5	Learn methods of virus diagnostics

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

