

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Plant Disease Forecasting	and Early Warning				
Course Code	ZBK508	Couse Level	Second Cycle	Cycle (Master's Degree)		
ECTS Credit 8	Workload 200 (Hours) Theory 2	Practice	2	Laboratory	0
Objectives of the Course	 In this course, the introduc diseases by examples, pat systems development; to t warning purposes. 	hogen, host and enviror	nment relations	by using the	methods of early	warning
Course Content	This course provides inforr combating plant diseases, warning systems. In addition monitoring of pathogen, ho evaluation is explained. Fin plant diseases are introduct	the principles of predict on, estimation and early ost and environmental co nally, important prediction	ion and early w warning syster onditions and e	arning, and the second the second s The second s Second second se	he development of from disease mod data collection an	of early dels and d
Work Placement	N/A					
Planned Learning Activi	ties and Teaching Methods	Explanation (Presenta Study	ation), Demonst	tration, Projec	t Based Study, Ir	ndividual
Name of Lecturer(s)	Prof. Ömer ERİNCİK					

Assessment Methods and Criteria

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

Recommended or Required Reading

 Campbell C. L. And Madden L. V. 1990. Introduction to Plant Disease Epidemiology. A Wiley- Interscience Publication. New York
 Jones, D.G. 1998. The Epidemiology of Plant Diseases
 Madden L. V. And Ellis M.A How to develop Plant Disease Forecasters
 Francl, L. F. and Deborah, N. A. 1997. Exercise in plant Disease Epidemiology

Week	Weekly Detailed Course Contents					
1	Theoretical	Definition, history, purpose, benefits and importance of early warning in plant diseases and its importance in IPM.				
2	Theoretical	Factors causing disease formation in plants (pathogen, host and environment). Forecasting and early warning of these factors				
3	Theoretical	Pathogen and host tracking and data collection				
4	Theoretical	Monitoring of environmental conditions and data collection, climate stations				
5	Theoretical	Development of disease forecasting and early warning systems Development of disease models I				
6	Theoretical	Development of disease models II				
7	Intermediate Exam	Midterm Exam				
8	Theoretical	Forecasting and early warning systems Phenological models				
9	Theoretical	Forecasting and early warning systems based on pathogen conditions				
10	Theoretical	Environmental warning and early warning systems I				
11	Theoretical	Environmental warning and early warning systems II				
12	Theoretical	Important forecasting and early warning systems used in the fight against plant diseases in our country				
13	Theoretical	Important forecasting and early warning systems used in the fight against plant diseases in the world				
14	Theoretical	Important forecasting and early warning systems used in the fight against plant diseases in the world				
15	Theoretical	Technological developments in forecasting and early warning, early warning systems with computer, satellite and GSM				



16	Final Exam	Final Exam	
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Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Lecture - Practice	14	2	2	56
Term Project	1	0	40	40
Midterm Examination	1	20	1	21
Final Examination	1	26	1	27
	200			
	8			

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

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

