



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Organic Disease Control in Plant Production							
Course Code		OT215		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	81 ( <i>Hours</i> )	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The aims of this course are to introduce diseases that causes significant yield losses on cultivated plants in organic farming, and to teach basic plant disease management methods.							
Course Content		In this course, in the first section, student will learn about general plant pathology including significance of plant pathology, the concept of plant disease, the symptoms of diseases, abiotic diseases, biotic diseases (disease triangle, disease cycle, causal organisms). In the second section, plant disease management methods in organic agriculture will be explained by giving examples.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	Plant pathology. Agrios,G.N.,2005. 5 th edition, Elsevier Academic Press,U.S. 948 pp.
2	Fitopatoloji. Döken, M.T., Demirci, E., Zengin,H., 2011 . Atatürk Üniversitesi, Ziraat Fak. Ofset Tesis, Erzurum, 8. Baskı, 258 pp.

Week	Weekly Detailed Course Contents	
1	Theoretical	The Importance of phytopathology, the concept of disease, symptomatology
	Practice	Field Work
2	Theoretical	Occurrence of diseases and disease cycle
	Practice	Field Work
3	Theoretical	Occurrence of diseases and disease cycle
	Practice	Field Work
4	Theoretical	Mechanisms of the plant diseases
	Practice	Field Work
5	Theoretical	Abiotic diseases
	Practice	Field Work
6	Theoretical	Plant pathogenic viruses and viroids
	Practice	Field Work
7	Theoretical	Plant pathogenic bacteria and mollicutes
	Practice	Field Work
8	Intermediate Exam	Midterm exam
9	Theoretical	Plant pathogenic bacteria and mollicutes
	Practice	Field Work
10	Theoretical	Plant pathogenic fungi, general introduction
	Practice	Field Work
11	Theoretical	Fungal Diseases
	Practice	Field Work
12	Theoretical	Fungal Diseases
	Practice	Field Work
13	Theoretical	Quarantine and Cultural Measures for controlling plant diseases in organic agriculture
	Practice	Field Work
14	Theoretical	Physical and biological control in oraganic agriculture



14	Practice	Field Work
15	Theoretical	Chemical control in organic agriculture
	Practice	Field Work
16	Final Exam	Final exam

**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	2	10	14	48
Midterm Examination	1	15	1	16
Final Examination	1	16	1	17
Total Workload (Hours)				81
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

**Learning Outcomes**

1	Understands the importance of disease in plant production.
2	Distinguish between sick and healthy plants and recognize the symptoms of disease.
3	To describe the environmental conditions causing non infectious diseases
4	To be able to comprehend how infectious diseases develop and disseminate
5	To understand how knowledge on disease cycle can contribute to management of diseases
6	Describe the pathogenic organisms

**Programme Outcomes (Organic Agriculture)**

1	To have university life, to use computer technology and to have skills for raising of scientific data
2	To produce according to organic agriculture rules
3	To know and apply starter to organic agriculture, and to get product certification
4	To know genetic for organic vegetable and animal species
5	To know and apply organic production principle and regulations and protection of environment
6	Understand and apply production techniques for organic vegetable and animal
7	To understand control methods for diseases and pests in organic agriculture
8	Having knowledge of quality control, preserving and marketing of organic products
9	To having knowledge equipments and methods for new agricultural technologies
10	To have knowledge of professional ethics and responsibility
11	Ability to work in team and individual
12	To communicate orally and in writing
13	To have adopt life-long learning importance and to have follow professional developments

**Contribution of Learning Outcomes to Programme Outcomes** 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5	L6
P6	4					
P7	5	5	5	5	5	5
P8	4	5	4	4	4	

