



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Diseases and Pest Control in Organic Agriculture							
Course Code		ORT206		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The objective of this course is to introduce the general principles and methods of plant protection in organic farming, the legal and certification aspects, , the introduction of diseases / pests in organic products and the ecological methods used for control of plant diseases and pests in organic crops							
Course Content		General Principles of Plant Protection in Organic agriculture, Introduction of important diseases and pests, Control methods of plant pests and diseases in Organic agriculture.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Lec. Birsen GEÇİOĞLU ERİNCİK, Lec. Fulya KAYA APAK							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Çakmakçı, R., Erdoğan, Ü.,2005. Organic Agriculture. Atatürk University, İspir Hamza Polat Vocational School No: 2, ERZURUM 233s.
2	Gönen, O., Ulug E. ve Uygun F.N. 1995. Plant Protection in Ecological Agriculture. Çukurova University Faculty of Agriculture Publications. ADANA.
3	Sharma A., and Chandel R.S., 2010. Plant Protection Practices in Organic Farming. International Book Distributors, 566 p.
4	Aksoy, U. ve Altındışli, A., 1999. Ecological (Organic, Biological) Agriculture. İZMİR
5	Öncüler, 2008. Agricultural Pest Control Methods and Pesticides. ADÜ Publications.
6	T. C. MINISTRY OF AGRICULTURE AND FORESTRY, AGRICULTURAL RESEARCH AND POLICIES GENERAL DIRECTORATE, Plant Protection Technical Instruction Books (2008)

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction of pests and information on morphology, biology and harm
	Practice	Examination of general pests in the laboratory
2	Theoretical	The principles and objectives of plant protection in organic agriculture
	Practice	Examination of general pests in the laboratory, examination of insect catching equipment
3	Theoretical	Basic information in the control of agricultural pests
	Practice	Examination of general pests in the laboratory, examination of control equipment
4	Theoretical	Cultural and mechanical control of agricultural pests in organic agriculture
	Practice	Examination of general pests in the laboratory, examination of control equipment
5	Theoretical	Physical and biotechnical control of agricultural pests in organic agriculture
	Practice	Examination of traps types. Handling a trap
6	Theoretical	Biological control of agricultural pests in organic agriculture
	Practice	Examination of biological control agent insects. Trap control.
7	Theoretical	Chemical control of agricultural pests in organic agriculture
	Practice	Examination of pesticide chest
8	Theoretical	Important diseases in fruits and their control in organic agriculture
9	Theoretical	Important diseases in fruits and their control in organic agriculture
	Practice	Field work on cultural practices
10	Theoretical	Important diseases in fruits and their control in organic agriculture
	Practice	Preparation of the Bordeaux mixture
11	Theoretical	Important diseases in vegetables and their control in organic agriculture
	Practice	Field study on physical controls
12	Theoretical	Important diseases in vegetables and their control in organic agriculture



12	Practice	Biopesticides and their applications
13	Theoretical	Important diseases of field crops and their control in organic agriculture
	Practice	Chemicals in organic agriculture,
14	Theoretical	Important diseases of field crops and their control in organic agriculture
	Practice	Application of solarization
15	Theoretical & Practice	General assessment & Evaluation of field studies
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Midterm Examination	1	7	1	8
Final Examination	1	10	1	11
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to comprehend the "organic agriculture" system and its basic principles,
2	To be able to identify the organic production steps other than conventional production method,
3	To be able to realize the importance of the Legislative methods such as quarantine, certification and regulations in organic culture
4	To be able to list the cultural methods in soil to prevent the soil-borne, seed-borne and foliar pathogens in organic culture,
5	To be able to list the biological control methods and products,
6	To be able to use alternative control methods instead of chemical control methods,
7	To be able to diagnose the problems of organic farming in the region and the country swiftly and correctly,
8	To be able to develop the ability of analyzing, commenting and applying the knowledge,
9	To be able to apply his theoretical knowledge to practice by working in organic producing firms as production manager,
10	To be able to develop solutions to the plant protection problems in organic farming to the international level.

Programme Outcomes (Organic Agriculture)

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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	L7	L8	L9	L10
P1	1		4	2	4	4		2	2	3
P2	1	1	1	1	1	1	1	1	1	1
P3	2	2	2	2	2	2	2	3	3	4
P4	5	5	5	5	5	5	5	5	4	4
P5	5	5	5	5	5	5	5	5	5	5
P6	4	4	5	3	5	5	3	3	3	3
P7	1	1	3	3	2	4			1	1
P8		1		1				1		
P9	3	2	2	2	2	3	1			



P10	3			3	3	3		3	4	1
P11	2		4	4	4	3	2	4	3	3

