



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Plant Protection in Organic Agriculture							
Course Code		BKR211		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To be able to learn and apply methods of control diseases and pests in organic farming							
Course Content		The concept of disease in plants, fungi, bacterial, viral and other diseases that cause problems in plants, identification, identification, transmission and propagation and harmful organisms (insect, mite etc.)							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Ins. Hüseyin YERLİKAYA							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Course notes of lecturer
2	Presentations and Lecture Notes Compiled From Different Sources
3	GÖNEN, O., ULUG E, ve UYGUN F.N. 1995. Ekolojik Tarımda Bitki Koruma. Çukurova Üniversitesi Ziraat Fakültesi Yayınları
4	AKSOY, U ve ALTINDIŞLI, A. 1999. Ekolojik (Organik, Biyolojik) Tarım. İzmir

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition of organic (ecological) agriculture, history, and situation in Turkey and the world
2	Theoretical	Principles and Objectives of Plant Conservation in Organic Agriculture
3	Theoretical	Legislation, control and certification in organic farming
4	Theoretical	Causes of Organic Agriculture and Disease
5	Theoretical	Fungus and their symptoms
6	Theoretical	Bacteria and the cause of the disease
7	Theoretical	Viruses and their symptoms
8	Intermediate Exam	Midterm exam
9	Theoretical	Preventive measures against plant diseases
10	Theoretical	Pests in Organic Farming
11	Theoretical	Pest Control Methods in Organic Agriculture: Biological Control
12	Theoretical	Cultural, Mechanical and Physical Control
13	Theoretical	Mechanical control against pests
14	Theoretical	Biopesticides and applications
15	Theoretical	Pesticides permitted for use in organic agriculture

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Individual Work	1	2	0	2
Midterm Examination	1	9	1	10
Final Examination	1	9	1	10
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	Being able to learn the source of the disease and ways of transmission in plants
2	To be able to distinguish the symptoms of diseases caused by fungal, bacterial and viral factors in plants
3	To be able to learn methods of control diseases and pests in organic farming and to be able to interpret them in terms of protection
4	Recognize important plant pests in ecological agriculture.
5	Know alternative methods of control that can be used in place of chemistry.

Programme Outcomes (Plant Protection)

1	To be able to learn about systematics, morphological, biological, ecological and epidemiological information about diseases, pests and weeds that cause the loss of the crop at every stage of production,
2	To be able to become familiar with agricultural management control methods and their use in control of plant diseases, pests and weeds in cultivated agricultural crops,
3	To be able to diagnose and identify plant diseases, insect, mite or nematode pests or weeds that cause economical losses in stored crops and products,
4	To be able to use pesticides safely and effectively and informed about their hazardous non-target effects on the environment and human health.
5	To be able to learn plant protection products and their practice in organic agriculture,
6	To be able to evaluate the information obtained throughout the learning process with cause-effect relations, to be able to collect data and transfer the results to practice, and to predict where, when and why to use the information
7	To be able to comply with professional, cultural, social ethic rules in his / her field and to be entrepreneurial
8	To be able to have conscious of the universality of social rights, social justice, quality and cultural values, environment protection, occupational health and safety issues
9	To be able to use information and communication technologies together with the required computer software of his / her field
10	To be able to have the necessary background and qualifications to work in public and private agriculture sectors, to be able to conduct a study independently / as a team member and to be able to comply with the relevant legislation

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	5	4	4	4	5
P2	4	4	4	4	4
P3	4	4	4	4	4
P4	2	3	2	3	3
P5	5	5	4	4	2
P6	4	2	2		
P7	2	2			
P10	4	3	3	3	2

