AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Agricultural Control Methods								
Course Code	BKR102		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	2	Workload	50 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The objective of this course is to provide students with information on the principles of agricultural pest control, their application as well as the methods of pest control and integrated pest management (IPM) in order to create the awareness of integrated control. Teaching control methods used against to plant diseases and by protecting human health and environment.								
Course Content	Course Content The methods used to control plant diseases and pesticides. Subjects to be considered prior to pest control. Pest control methods (Cultural practices, Mechanical control, Physical control, Quarantine practices, Biological control, Biotechnical methods, Chemical control and insecticides, Integrated pest management)								
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 Lecturers
2	Farklı Kaynaklardan Derlenmiş Sunumlar Ve Ders Notları
3	Toros, S., Maden, S. ve Sözeri, S. 1999. Tarımsal Savaş Yöntem ve İlaçları A.Ü.Ziraat Fakültesi
4	Bora,T., Özaktan, H., 1998. Bitki Hastalıklarıyla Biyolojik Savaş. - Prizma Matbaası, İzmir,

Week	Weekly Detailed Course Contents	
1	Theoretical	Control methods used against plant pathogens. Legislative methods; quarantine
2	Theoretical	Cultural methods; Sanitation and prevention to soil borne plant pathogens
3	Theoretical	Sanitation and prevention to foliar plant pathogens
5	Theoretical	Biological control mechanisms; parasitism, and hypovirulens
6	Theoretical	Biological control of plant diseases, Biological control mechanisms; antibiosis and competiton
7	Theoretical	Industrial scale production of biological control agents
8	Theoretical	Midterm Exam
9	Theoretical	Methods used in pest management decision making
10	Theoretical	Cultural Control, Mechanical Control
11	Theoretical	Physical Control, Legal Control
12	Theoretical	The Terminology on Parasitoid and Predator Insects
13	Theoretical	Biological Control, Biotechnical Control, Genetical Control
14	Theoretical	Chemical Control
15	Theoretical	The correct timing, dosing and and application of pesticides

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Individual Work	1	0	2	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	To be able to learn regulatory methods, cultural methods, rules of sanitation
2	To be able to use the most harmless pest control method to the environment and successfully incorporate into IPM programmes.
3	To be able togain the ability to use pesticide with the minimum harm to the environment.
4	To be able to learn the fungicide formulations, active ingredients and modes of action
5	To be able to comprehend biological control advantages and disadvantages than chemical control
6	To be able to apply pesticides at the right dose, at the right time in the right way.

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	L6
P1	4	4	5	4	4	3
P2	4	4	3	4	3	3
P3	4	4	3	3	3	3
P4	4	4	4	3	5	4
P5	4	4	3	3	5	2
P6	4	3	2	2	2	2
P7	4	3	2	1	2	2
P10	4	4	3	4	4	4