



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Plant Protection Pratics II							
Course Code		BKR216		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 ( <i>Hours</i> )	Theory	0	Practice	4	Laboratory	0
Objectives of the Course		It is the application of the theoretical knowledge learned in the courses in the field conditions.							
Course Content		Within the scope of all courses; cultural measures, mechanical control, biological and biotechnical methods, chemical control, calibration, sample examination and imaging under microscope, use of spraying instruments, insect collection, collection of nematodes and mites.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Ins. Hüseyin YERLİKAYA, Lec. Şebnem Nalan AKAROĞLU							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	59
Report	1	30

### Recommended or Required Reading

1	Course notes of Lecturers
2	Plant Protection Technical instructions

Week	Weekly Detailed Course Contents	
1	Practice	Introduction and program introduction
2	Practice	Use of laboratory instruments-II
3	Practice	Collecting and killing insect specimens
4	Practice	Pinning, labeling and collection of insect specimens
5	Practice	Collection of parasitic insect samples and monitoring of parasitoid exits
6	Practice	Cultural measures against plant pests and mechanical control practices
7	Practice	Dose adjustment and calibration
8	Intermediate Exam	Midterm
9	Practice	Counting techniques on leaf and fruit to determine economic damage threshold
10	Practice	Garden and Field pest control
11	Practice	Preparation and application of trap (sticky, pheromone, nutrient attractant) within the scope of biotechnical control
12	Practice	Warehouse visits for warehouse pests
13	Practice	Taking nematode samples from soil
14	Practice	Visit of Agrochemicals and Greenhouses
15	Practice	Evaluation of the applications

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Practice	14	0	4	56
Land Work	12	2	0	24
Midterm Examination	1	9	1	10
Final Examination	1	9	1	10
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	Learn the use of laboratory equipment.
2	Learn the use of chemical control tools and equipment.
3	Makes mechanical and chemical control of plant pests.
4	Learns labeling and collection of insects.
5	Apply biotechnical control methods.
6	Learns to take soil samples for nematode analysis.

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

