



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Pyhtopathology							
Course Code		BKR105		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 ( <i>Hours</i> )	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		Teaching the disease concept on the plants, the etiological reasons for disease occurrence, analyze the biotic and abiotic reasons of the diseases in respect to their function and interaction in ecosystem, evaluation and recognition of the the plant pathogens, comparison the common control methods for disease management							
Course Content		Biotic and abiotic agents, changes in disease plants, plant resistance mechanisms, weeds and control methods of plant diseases							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)									

### 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	Presentations and Lecture Notes Compiled From Different Sources
3	Baykal, N. 1992. Fitopatoloji. Uludağ Üniversitesi Basımevi,
4	Agrios, G.N. 1996. Plant Pathology.

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to basic terminology, disease concept and descriptions on the plant
2	Theoretical	History of phytopathology science, economical importance of the diseases
3	Theoretical	Biotic and abiotic factors
4	Theoretical	Disease symptoms (Symptomatology)
5	Theoretical	Effects of pathogens on plant physiological functions
6	Theoretical	Effects of pathogens on plant physiological functions
7	Theoretical	Fungi
8	Intermediate Exam	Midterm exam
9	Theoretical	Bacteria
10	Theoretical	Viruses
11	Theoretical	Parasitic flowering plants
12	Theoretical	Harmful aspects of weeds, basic control methods for diseases and weeds
13	Theoretical	Disease types
14	Theoretical	Hygiene and therapy
15	Theoretical	Plant disease management

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	2	0	2	4
Laboratory	2	6	4	20
Individual Work	2	12	2	28
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	To be able to learn Phytopathology science, its development and current importance
2	To be able to know plant disease events and annual disease cycle on plants
3	To be able to know biochemical and physiological changes on diseased plant
4	To be able to know structural and biochemical resistance response on the plant
5	To be able to have information about the important plant diseases for Turkey, their symptoms and control methods
6	To be able to know common disease control methods

### 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	4	4	4	4
P2	4	4	4	4	4	4
P3	4	4	4	4	4	4
P4	4	4	4	4	4	4
P5	4	4	4	4	4	4
P6	4	4	4	4	4	4
P10	4	4	4	4	4	4

