



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Soilborne Fungi							
Course Code		ZBK602		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	175 ( <i>Hours</i> )	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		To give information about diseases caused by soil-borne fungal agents and general methods of struggle.							
Course Content		Classification of soil-borne fungal agents, conditions affecting their development (microbial population in the plant rhizosphere, spermosphere, antibiotics, hyperparacides, competition, soil, air, water, pH), pathogen - host relationships (effect and defense mechanics) are examined, the diseases and fighting opportunities they describe are described. .							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Individual Study					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Soilborne Fungi
2	Agrios, G. 2005. Plant Pathology, 5. Edition Elsevier Academic Press
3	Webster, J., and R. W. S. Weber 2007. Introduction to Fungi, Cambridge University Press
4	Leslie J.L. And B. A. Summerell, 2006. The Fusarium Laboratory Manual. Blackwell Publishing Professional

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction
	Preparation Work	General preparation is made for the isolation of soil-borne fungi.
2	Theoretical	Soil-induced fungal agents and their general characteristics
3	Theoretical	Fungal factors caused by soil and diseases caused by
	Preparation Work	Preparation of soil preparation fungi and preparation of the preparation of the structure is made.
4	Theoretical	diseases caused by Plasmodiophorales Team, their struggle and their situation in our country
	Preparation Work	Preparations are made about the diseases and hosts caused by the Plasmodiophorales Order.
5	Theoretical	Oomycota Team member fungi caused by diseases, struggle and the situation in our country
	Preparation Work	Oomycota Order members of the fungi and the structure of the host and the preparation of the preparation for the preparation of the preparation is done.
6	Theoretical	Oomycota Team member fungi caused by diseases, struggle and the situation in our country
	Preparation Work	Oomycota Order members of the fungi and the structure of the host and the preparation of the preparation for the preparation of the preparation is done.
7	Theoretical	Ascomycota Team member diseases caused by fungi, the struggle and the situation in our country
	Preparation Work	Ascomycota Order members are prepared preparations for examination of host and structure and properties of fungi.
8	Theoretical	Ascomycota Team member diseases caused by fungi, the struggle and the situation in our country
	Preparation Work	Ascomycota Order members are prepared preparations for examination of host and structure and properties of fungi.
9	Theoretical	Ascomycota Team member diseases caused by fungi, the struggle and the situation in our country
	Preparation Work	Ascomycota Order members are prepared preparations for examination of host and structure and properties of fungi.
10	Intermediate Exam	Exam
11	Theoretical	Pallor diseases and disease formation mechanisms
	Preparation Work	The cause of wilt is preparation of the preparations for the examination of host and structure and properties of fungi.



12	Theoretical	Ascomycota Team member diseases caused by fungus wilt diseases, struggle and the situation in our country
	Preparation Work	The cause of wilting is the study of the struggle of fungi.
13	Theoretical	Diseases caused by the members of the Basidiomycota Team, their struggle and the conditions in our country
	Preparation Work	Basidiomycota Order members of the fungi and their structure and characteristics of the preparation of the preparation preparation is done.
14	Theoretical	Diseases caused by the members of the Basidiomycota Team, their struggle and the conditions in our country
	Preparation Work	Basidiomycota Order members of the fungi and their structure and characteristics of the preparation of the preparation preparation is done.
15	Theoretical	Ascomycota Team member diseases caused by fungus wilt diseases, struggle and the situation in our country
	Preparation Work	Basidiomycota Order members of the fungi and their structure and characteristics of the preparation of the preparation preparation is done.
16	Final Exam	Final Exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Lecture - Practice	14	1	2	42
Assignment	4	0	5	20
Laboratory	5	4	2	30
Individual Work	2	0	7	14
Midterm Examination	1	10	1	11
Final Examination	1	15	1	16
Total Workload (Hours)				175
[Total Workload (Hours) / 25*] = <b>ECTS</b>				7

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	Have knowledge about the general properties of soil-borne fungal agents
2	Have information about diseases and biology of soil-induced fungal agents
3	Have information about the host of soil-borne diseases.
4	Gains knowledge of pale diseases and host relationships caused by soil-borne diseases.
5	Gains knowledge of general control methods of soil-borne fungal agents

### Programme Outcomes (Plant Protection Doctorate)

1	Students improve their knowledge and skill previously gained during first cycle and second cycle programs and become a specialist their own discipline
2	Students gain knowledge and experience for using new techniques and equipments in their own discipline.
3	Students gain ability to plan and conduct scientific projects in their own discipline by using current knowledge and techniques, and to collect and analyze data and make inference on the results .
4	Students gain ability to write scientific articles and prepare them for publications and to make oral or poster presentations in scientific meetings.
5	Students gain ability to review scientific articles and projects relevant to their own discipline.
6	Students gain experiences how to get effective position in national and international projects.
7	Students gain experience for participating in and organizing scientific meetings.

### 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	4	5	4	4	5
P2	5	4	5	5	4
P3	4	4	5	4	4
P4	5	5	5	5	5
P5	5	4	5	5	4
P6	4	5	4	5	5



P7	5	4	5	4	5
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