

PHYTOPATHOLOGY

1	Course Title:	PHYTOPATHOLOGY
2	Course Code:	BTKZ104
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr. Gör. HAKAN ERDOĞAN
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	Öğ.Gör. Hakan ERDOĞAN hkerdogan@uludag.edu.tr 02247736042
17	Website:	
18	Objective of the Course:	The aim of this course is to enable students to learn the concept of disease in plants, to understand all the factors that cause disease, to learn the causes of plant and pathogen-induced changes in disease formation, to analyze the place and functions of disease factors in the ecosystem, to make macroscopic and microscopic evaluation, to make comparison of the main methods which can fight against microorganisms causing diseases in plants.
19	Contribution of the Course to Professional Development:	Learns living and non-living disease factors that cause disease in plants and methods of combating them.
20	Learning Outcomes:	
	1	To be able to comprehend the structural and biochemical reactions in plant resistance against harmful microorganisms
	2	To be able to evaluate the status of plant diseases in ecological system
	3	To compare and analyze the basic concepts of disease control in phytopathology
	4	To comprehend the general information in phytopathology
	5	To understand the economic importance of diseases in plant production
	6	To be able to identify the nonliving and living elements that cause the diseases and to categorize them
	7	To be able to identify important microbial chemicals
	8	To be able to relate the physiological and biochemical changes caused by microorganism-based substances in plants
	9	
	10	
21	Course Content:	
	Course Content:	

Week	Theoretical	Practice
1	General content and presentation of the course, the concept of disease in plants and definitions	
2	History of plant diseases, economic importance, general recognition ways of disease	
3	Symptoms of disease (Symptomatology)	
4	Abiotic reasons of diseases in plants	
5	Biotic reasons of diseases in plants, plant pathogenic viruses	
6	Biotic reasons of diseases in plants, plant pathogenic viruses	
7	Plant pathogenic prokaryotes	
8	Plant pathogenic prokaryotes	
9	Plant pathogenic fungi	
10	Disease formation and disease stages	
11	How pathogens attack plants: chemical weapons of the pathogen	
12	Physiological changes in diseased plants	
13	Plant defense against pathogens and disease ecology	
14	Protection measures against plant diseases	

Activites		Number	Duration (hour)	Total Work Load (hour)
THEORETICAL				
TERM LEARNING ACTIVITIES	NUMBER	WEIGHT	3.00	42.00
Practicals/Labs	0	0.00	0.00	0.00
Midterm Exam	1	40.00		
Self study and preparation	1	14.00	3.00	42.00
Others	0	0.00		
Homeworks	1	8.00	8.00	8.00
Home work-project	0	0.00		
Projects	0	0.00	0.00	0.00
Field Studies	1	8.00	8.00	8.00
Total	2	100.00	10.00	10.00
Midterm exams	1	10.00		
Others	0	0.00	0.00	0.00
Final Exams	1	10.00	10.00	10.00
Contribution of Final Exam to Success Grade	1	60.00		
Total Work Load				120.00
Total		100.00		
Total work load/ 30 hr				4.00
ECTS Credit of the Course				4.00

undergraduate Education Regulation.

24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	2	1	1	0	1	0	2	1	1	1	0	0	0	0	0	0
ÖK2	3	1	1	0	1	1	3	2	1	0	0	0	0	0	0	0
ÖK3	4	2	3	0	0	2	3	2	1	2	0	0	0	0	0	0

ÖK4	5	4	3	1	2	3	3	3	2	1	0	0	0	0	0	0
ÖK5	2	1	2	0	1	1	3	2	2	1	0	0	0	0	0	0
ÖK6	4	2	1	0	0	1	2	3	1	2	0	0	0	0	0	0
ÖK7	3	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0
ÖK8	1	1	1	0	0	0	2	2	1	2	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			