HOST PLANT AND PATHOGEN INTERACTIONS (PHYTOPATHOLOGY SCIENCE BRANCH)

1	Course Title:	HOST PLANT AND PATHOGEN INTERACTIONS (PHYTOPATHOLOGY SCIENCE BRANCH)							
2	Course Code:	BIT5001							
3	Type of Course:	Compulsory							
4	Level of Course:	Second Cycle							
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	6.00							
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:	Prof. Dr. ÜMİT ARSLAN							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	uarslan@uludag.edu.tr Tel: 0 224 294 15 75 Bursa Uludağ Üniversitesi, Ziraat Fakültesi Bitki Koruma Bölümü Görükle Kampüsü, Nilüfer-BURSA							
17	Website:								
18	Objective of the Course:	Mechanism of host plant relationships, genetic mechanisms of host plant resistance in plants, mechanisms responsible for variation in plant pathogens, epidemiology and etiology of major groups of plant-microbe relationships, control measures of plant pathogens							
19	Contribution of the Course to Professional Development:	This course provides students basic knowledge about host plant and pathogen interactions							
20	Learning Outcomes:								
		1	Knows economical importance and spread of plant diseases						
		2	Knows pathogens causing diseases on plants						
		3	Knows morphological features of fungal, bacterial and viral pathogens						
		4	Knows genetic mechanisms of host plant resistance in plants						
		5	Knows mechanisms responsible for variation in plant pathogens						
		6	To understand the epidemiology and etiology of major groups of plant-microbe relationships						
		7	Knows biochemistry of plant pathogen interactions						
		8	Knows physiology of plant pathogen interactions						
		9	Knows interactions between plant pathogens and host plant						
		10	Knows control measures of plant pathogens						
21	Course Content:								
	Course Content:								
Week	k Theoretical Practice								

1	Introduction and terminology									
2	Disease development									
3	Classification of plant diseases									
4	Interactions between plant pathogen: host plant	s and								
5	Mechanisms responsible for variation pathogens including mutation, hybrid heterokaryosis, parasexuality, adapta cytoplasmic inheritance and bacteria conjugation, transformation, and tran	n in plant lization, ation, l sduction								
6	Genetics of host-pathogen interaction mechanism of genetic variability in pathology	n, athogens								
7	The gene-for-gene-concept									
8	Formation of new races and biotypes	5								
9	Study of pathogenicity of fungi, bacte viruses	eria and								
10	Molecular and biological techniques identification of plant pathogens	for								
11	Biochemistry and physiology of plant pathogen Interactions									
12	Host plant-pathogen interactions, wit examples	h some								
13	Epidemiology of plant diseases									
14	Control measures of plant pathogens	5								
Activit	es		Number	Duration (hour)	Total Work Load (hour)					
Theore	tical	1	Jeger, M.J., Spence,N.J	.32001. Biotic Intera	ations in Plant-					
Practica	als/Labs		0	0.00	0.00					
Self stu	dy and preperation		Varma, A., Abbott, L., W Surface Microbiology, S	erner, D., Hampp, pringer, 628 p	84.00 ⁴ . Plant					
Homew	vorks		0	0.00	0.00					
Pr2ject	Assesment		0	0.00	0.00					
Field S	tudies		0	0.00	0.00					
Midtern	n exams n Exam	0	0 80	0.00	0.00					
Others			0	0.00	0.00					
Final E	xams work-project	0	0.00	54.00	54.00					
Total W	/ork Load				180.00					
Total w	ork load/ 30 hr	1	100.00		6.00					
ECTS (Credit of the Course				6.00					
Succes	s Grade	50 10								
Contrib	ution of Final Exam to Success Grade	Э	100.00							
Total			100.00							
Measur Course	rement and Evaluation Techniques Us	sed in the	It is evaluated according to the principles of the Associate and Undergraduate Education Regulation of Bursa Uludag University.							
24	24 ECTS / WORK LOAD TABLE									

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	5	0	0	0	0	0	4	0	0	0	0	0	0
ÖK5	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	Contrib 1 very low ution Level:			2 low 3		3	Medium		4 High			5 Very High				