PLANT PATHOGENIC FUNGI

1	Course Title:	PLANT PATHOGENIC FUNGI	
2	Course Code:	BIT6013	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	2.00	
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:	The course aims to explain the general characteristics of fungi, to give basic information on fungal nutrition, growth and reproduction, to introduce certain taxonomic categories that contain plant pathogenic fungi	
19	Contribution of the Course to Professional Development:	This course provides students with basic information about plant pathogenic fungi	
20	Learning Outcomes:		
		1	Knows the fungal plant pathogens
		2	Knows the fungal growth and nutrition
		3	Knows the fungal metabolism and fungal products
		4	Knows the fungal genetic and molecular genetic
		5	Knows the fungal spores
		6	Knows the fungal ecology
		7	Knows the fungal taxonomy
		8	Knows the fungal life cycles
		9	Knows the fungal diseases
		10	Knows the control methods of fungal plant pathogens
21	Course Content:		
	Course Content:		

Week	Theoretical	Practice
1	Introduction to plant pathogenic fungi	Collection of fungi from various sources
2	Fungal structure and ultrastructure	Isolation of pathogenic fungi from infected tissues
3	Fungal growth and fungal nutrition	Purification of fungal plant pathogens
4	Fungal metabolism and fungal products	Demonstration of Koch’s postulates
5	Fungal genetics and molecular genetics	Inoculation methods of fungal plant pathogens
6	Fungal spores	Use of diagnostic keys for identification of important fungi
7	Fungal ecology	Demonstration of hypersensitive reaction, resistance and susceptibility
8	Fungal taxonomy	Methods for confirmation of pathogenicity of various groups of plant pathogenic fungi
9	Fungal life cycles	Preparation of inocula; inoculation techniques for various plant pathogens
10	Fungi as plant pathogens	In vitro evaluation of fungicides and bio-control agents against fungal pathogens-1
11	Fungal pathogens of plants	In vitro evaluation of fungicides and bio-control agents against fungal pathogens-2
12	Disease symptoms-1	In vivo evaluation of fungicides and bio-control agents against fungal pathogens-1
13	Disease symptoms-2	In vivo evaluation of fungicides and bio-control agents against fungal pathogens-2
14	Control of plant pathogenic fungi	Preservation of fungal cultures
22	Textbooks, References and/or Other	Deacon, J.W. 2006. Fungal Biology. 4th edition. Blackwell Strange R.N. 2003. Introduction to Plant Pathology. John Wiley and Sons, New York.
23	Assesment	

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	0	0.00
Home work project	0	0.00
Final Exams	1	100.00
Total		100.00
Success Grade		

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	8	7.00	56.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	61.00	61.00
Total Work Load			173.00
Total work load/ 30 hr			5.77
ECTS Credit of the Course			6.00

Total	100.00
Measurement and Evaluation Techniques Used in the Course	It is evaluated according to the principles of the Associate and Undergraduate Education Regulation of Bursa Uludag University.

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	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖK3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
ÖK5	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK8	4	0	0	0	0	0	0	0	0	0	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

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**