SEED PATHOLOGY									
1	Course Title:	SEED P	PATHOLOGY						
2	Course Code:	BTK461	9-S						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	cle						
5	Year of Study:	4							
6	Semester:	7							
7	ECTS Credits Allocated:	4.00							
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:	Dr. Ögr. Üyesi KADİR İLHAN							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Dr. Öğr. Üyesi Kadir İLHAN kadirilhan@uludag.edu.tr Tel: 0 224 294 15 71 Bursa Uludağ Üniversitesi, Ziraat Fakültesi Bitki Koruma Bölümü Görükle Kampüsü, Nilüfer-BURSA							
17	Website:								
18	Objective of the Course:	Formation and structure of seeds, diseases caused by seed-borne fungi, their infection mechanism, transmission way from seed to plants, factors affecting transmission, epidemiology of seed-borne fungi will be discussed with comparison other pathogens. Seed health tests and control of seed-borne fungi will be taught.							
19	Contribution of the Course to Professional Development:	This course provides students basic knowledge and experience in diagnosing and controlling of seed-borne pathogens							
20	Learning Outcomes:								
		1	Students should be able to: To comprehend importance of seed-borne fungi						
		2	To comprehend formation and structure of seed						
		3	To learn seed diseases caused by fungi and their infection mechanisms by comparing with other pathogens						
		4	To learn the transmission mechnanism of seed-borne fungi from seed to plants and the factors affecting transmission						
		5	To comprehend the epidemiology of seed borne fungi with pathogen fungi samples						
		6	To know methods for the detection of seedborne fungi, bactreria and viruses						
		7	To learn the control methods of seed-borne fungi						
		8 To have information about new seed-borne fungi, collecting data about different seed-borne fungi							
		9	To learn the importance and harmful effects of seed-borne pathogens on human and animal health						
		10	To learn the seed health tests						
21	Course Content:								

	Course Content:										
Week	Theoretical		Practice								
1	Introduction to seed pathology, the importance and history of seed patho	logy	Isolation of seed-borne pathogens								
2	Seed borne and seed transmitted pat and changes in seeds caused by the	hogens m	Identification of seed-borne pathogens								
3	Structure of seeds and injuries and di observed in seeds	iseases	Preservation of seed-borne pathogens								
4	The seed borne pathogens in importa cultivated plants and their distribution basis of plant species	ant on the	Inoculation of seed-borne pathogens								
5	The ways of seed infection and seed mechanism	infection	Effect of antagonistic microorganisms on seed-borne pathogens and seed germination								
6	Factors affecting seed infection		Seed sampling according to International Seed Testing Association (ISTA) methods								
7	Longevity of seed borne pathogens a factors influencing longevity	nd	Seed sampling according to International Seed Testing Association (ISTA) methods								
8	Repeating courses and midterm exar	n	Preparation of working sample for seed health testing								
9	Seed transmission of pathogens and factors on transmission	effective	Preparation of working sample for seed health testing								
10	Methods for the detection of seed bo	rne fungi	Preparation of working s	sample for seed hea	alth testing						
11	Methods for the detection of seed bor bacteria	rne	Preparation of working sample for seed health testing								
12 Activit	IMethods for the detection of seed boi es	rne	IPreparation of working s Number	ample for seed hear Duration (hour)	alth testing Total Work Load (hour)						
Theore	practices, biological control)		14	2.00	28.00						
14 Practica	IChemical control of seed borne patho als/Labs	odens	14	2.00	28.00						
Self stu	tormulation, application methods and		14	2.00	28.00						
Homew	Itrindicides (used) Seed health tests		0	0.00	0.00						
Pr 8	Fextbooks, References and/or Other		Agarwal, V.K., Sinclair,	0.00 998. Principle	of Seed						
Field S	IMaterials: tudies		IPathology Vols I-II" C.R 0	C. Press USA	0.00						
Midtern	n exams		Erkan, S., 1998. Tohum	Patelojisi. Gözdem	P8:80						
Others			IAlsancak Izmir 275 s 0	0.00	0.00						
Final E	kams		Maude, R. B., 1996. See	egporne diseases a	ng their control,						
Total W	Vork Load		IPrinciples and Practice.	CAB International	Wallingford 120.00						
Total w	ork load/ 30 hr				4.00						
ECTS	Credit of the Course				4.00						
TERME	EARINING ACTIVITIES										
Midtern	n Exam	1	40.00								
Quiz		0	0.00								
Home v	work-project	0	0.00								
Final E	xam	1	60.00								
Total		2	100.00								
Contrib Succes	oution of Term (Year) Learning Activitie ss Grade	es to	40.00								
Contrib	oution of Final Exam to Success Grade)	60.00								
Total			100.00								

Measurement and Evaluation Techniques Used in the	It is evaluated according to the principles of the Associate
Course	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	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	0	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	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
ÖK8	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:	ntrib 1 very low 2 low on vel:			3 Medium			4 High			5 Very High						