BIOLOGICAL CONTROL									
1	Course Title:	BIOLOG	ICAL CONTROL						
2	Course Code:	BIT5003							
3	Type of Course:	Compuls	sory						
4	Level of Course:	Second Cycle							
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	7.00							
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:	Doç.Dr. HİMMET TEZCAN							
15	Course Lecturers:	Doç. Dr. Nimet Sema Gençer							
16	Contact information of the Course Coordinator:	e-mail: himmett@uludag.edu.tr Tel: (90) 224 29 41 572 Uludağ Üniversitesi Ziraat Fakültesi Bitki Koruma Bölümü Görükle Kampüsü 16059 BURSA/ TÜRKİYE							
17	Website:	http://www20.uludag.edu.tr/~bitkik/ludi/biyolojik_mucadele_ing.docx							
18	Objective of the Course:	The purpose of the course is to give the student a thorough understanding of the principles and methods of biological control of pests and diseases, provide knowledge of basic identification of biological control agents and help to understand relationships between pests and their natural enemies, observing the biocontrol mechanisms between the microorganisms in the ecological aspects, bioformulation and application of the biocontrol agents against to plant diseases and pests.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	To know history and importance of biological control						
		2	To understand the antagonistic mode of action of biocontrol agents						
		3	To know parasitoids and predators						
			To know biological control agents for plant pathogens						
		5	To know natural enemy conservation						
		6	To know principles and methods of introduction of new natural enemies						
		To know augmentation of parasitoids, predators and pathogens							
		8	To know nature conservation						
		To understand the scale-up production, and formulation of promising biocontrol agents							
		10	Creating an article, report and Project and evaluating these						

Week 7				Course Content:											
Week 7	Course Content:														
	Theoretical Practice														
	Pest origins, pesticides, and the historological conrtol	ry of													
	Biological control agents and biologica control methods	al													
	Parasitoids and predators of arthropoon molluscs	ds and													
4	Natural enemy conservation,														
5	ntroduction of new natural enemies,														
6	Augmentation of parasitoids, predato	rs													
	Biology of arthropod parasitoids and predators														
	ntroduction of biological control of pla diseases, natural balance	ant													
	ntroduction to the mode of action the piological controls; antibiosis in rhizop and phylloplane	lane													
10	Mechanisms of competition														
	Mechanisms of hyperparasitism, cross protection and induced resistance	6													
	solations of potantial antagonistic														
Activite				Number	Duration (hour)	Total Work Load (hour)									
Theoreti	Septetic manipulations in order to imposite ctiveness of biocontrol organism	iove the	П	14	3.00	42.00									
Practical	ls/Labs			0	0.00	0.00									
Self stug	commercial scale production of blocor ly and preperation agents and the examples of commerc	ntroi cial		0	0.00	0.00									
Homewo	orks			2	29.00	58.00									
Projects	patnogens			0	0.00	0.00									
Field Stu				0	0.00	0.00									
Midtern	vlaterials: exams		Sayaş Prizma Matbaası, Jamir, 205 s. 0.00												
Others				0	0.00	0.00									
Final Exa	ams		IV	enderes Universitesi 1	110.00 No:1	110.00									
Total Wo	ork Load					210.00									
Total wo	rk load/ 30 hr		\circ	партап & п ап-Ап тиє ompany.	mational momson	7.00									
ECTS C	redit of the Course					7.00									
			Biopesticides: Beneficial microorganisms, nematodes and seed treatments. Kluwer Academic Publishers. Cook, R.J. and Baker, K.F. 1983. Te Nature and Practice of Biological Control of Plant Pathogens, APS Press, St. Paul, Minnesota, USA												
23	Assesment														
TERM LE		NUMBE R	WEIGHT												
Midterm	Exam	0	0.	00											
Quiz		0	0.00												
		2	20.00												
Final Exa	am	1	80	0.00											

Total	3	100.00
Contribution of Term (Year) Learning Activiti Success Grade	es to	20.00
Contribution of Final Exam to Success Grad	е	80.00
Total		100.00
Measurement and Evaluation Techniques U Course	sed in the	
24 ECTS / WORK LOAD TABLE	1	

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	4	4	0	4	0	0	5	0	0	0	0	0	0	0	0	0
ÖK2	5	0	0	0	0	4	5	0	0	5	0	0	0	0	0	0
ÖK3	0	0	0	0	0	4	5	0	0	0	0	0	0	0	0	0
ÖK4	0	5	0	0	3	0	0	0	0	4	0	0	0	0	0	0
ÖK5	4	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0
ÖK6	3	3	0	5	0	0	5	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
ÖK10	0	0	0	0	0	0	0	5	4	5	4	5	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ution				3 Medium			4 High			5 Very High					