PLANT PROTECTION										
1	Course Title:	PLANT PROTECTION								
2	Course Code:	GBUP11	4							
3	Type of Course:	Compuls	sory							
4	Level of Course:	Short Cy	rcle							
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	3.00	3.00							
8	Theoretical (hour/week):	1.00								
9	Practice (hour/week):	2.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	-								
12	Language:	Turkish								
13	Mode of Delivery:	Face to	Face to face							
14	Course Coordinator:	Doç.Dr.	NABİ ALPER KUMRAL							
15	Course Lecturers:	Doç. Dr.	Doç. Dr. Himmet TEZCAN							
16	Contact information of the Course Coordinator:	akumral@uludag.edu.tr Uludağ Üniversitesi Ziraat Fakültesi Bitki Koruma Bölümü 16059-Görükle/BURSA Tel. 0(224) 294 15 76								
17	Website:									
18	Objective of the Course:	Aim of the course is to give general information about harmful pests and diseases on plants and explain the importance, general principles and applications of plant protection.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Learning basic concepts about plant diseases and weeds							
		2	Learning symptoms and taxonomy of plant diseases							
		3	Distinguishing symptoms and morphologic differences of fungi, bacteria and virus on plant.							
		4	Recognizing general plant diseases in agricultural production.							
		5	Knowing control methods for plant diseases and weeds.							
		6	Knowing morphologic characteristics and anatomy of arthropod pests, distinguishing general differences of insect orders.							
		7	Knowing internal and external anatomic structures, physiologies, life and development of insects.							
		8	Recognizing and distinguishing damage of arthropod pests on plants.							
		9	Understanding economic aspects of pest control.							
		10	Knowing cultural, physical, mechanical, biological, biotechnical, and chemical control methods for insects.							
21	Course Content:									
	Course Content:									
Week	Theoretical Practice									

1	Definition of phytopathology, concept phases of plant diseases	and	Slideshow							
2	Classification of plant disease sympto	oms	Slideshow, sampling and classification.							
3	Classification of plant diseases.		Field sampling and classification.							
4	Disease phases, general features and symptoms of viral and bacterial disea		Examining bacterial and viral disease symptoms.							
5	General features and classification of	fungi.	Examining symptoms of fungal diseases.							
6	Disease pathology and epidemiology.		Slideshow.							
7	Control methods for diseases and we	eds.	Description of important weeds and application samples.							
8	Repeating courses and midterm exan	n	Evaluation of exams.							
9	General features of insects, their benchazards, structure of external body, morphology, structure of head, antenimouth types.		Slideshow, examination of museum samples.							
10	Sections of thorax, leg types, structur- wing, extensions of abdomen and the function.		Slideshow, examination of museum samples.							
11	Anatomy of insects, structure of interr muscle, digestion, circulatory, excreto reproductive systems, function of sen systems and their function.	ry and	Slideshow, examination of museum samples.							
	Reproduction, development, metamor in insects and insect ecology.	rphosis	Slide and video show.							
13	Cultural, physical, mechanical, biolog biotechnical and chemical methods in		Field work, sample application methods.							
Activit			Number	Duration (hour)	Load (hour)					
Theore 22	tical Textbooks, References and/or Other		Agrios, G.N. 2005. Plan		14.00					
Practic	als/Labs		14	2.00	28.00					
	dy and preperation		ваукаї, т., тэээ. гіюра Basimevi.(ISBN-975-76							
Homew	vorks			10.00	10.00					
Project			Ankara, 424s.							
Field S			0	0.00	0.00					
Midern	Assesment		1	10.00	10.00					
Others			0	0.00	0.00					
		1	30.00	15.00	15.00					
Total W	/ork Load				91.00					
		1	10.00		3.03					
ECTS (Credit of the Course				3.00					
Total		3	100.00							
	ution of Term (Year) Learning Activitiess Grade	es to	40.00							
Contrib	ution of Final Exam to Success Grade		60.00							
Total			100.00							
Measui Course	rement and Evaluation Techniques Us	ed in the								
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	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	5	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	0	0	0	0	0	0	0
ÖK5	0	3	0	5	3	3	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	0	3	0	5	3	3	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	tion				3 Medium			4 High			5 Very High					