	SOIL	PLAN <sup>®</sup>	T INTERACTIONS						
1	Course Title:	SOIL F	PLANT INTERACTIONS						
2	Course Code:	BYL40	BYL4083						
3	Type of Course:	Option	al						
4	Level of Course:	First C							
5	Year of Study:	4	•						
6	Semester:	7							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	1.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	2							
11	Prerequisites:	None							
12	Language:	Turkisl	n						
13	Mode of Delivery:	Face to	Face to face						
14	Course Coordinator:	Prof. D	Dr. HÜLYA ARSLAN						
15	Course Lecturers:	Prof. D	Prof. Dr. Hülya ARSLAN						
16	Contact information of the Course Coordinator:	Görükl e-posta Telefor Uludaç Biology Gorukl e-mail:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: arslanh@uludag.edu.tr Telefon: 0 224 294 17 99 Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: arslanh@uludag.edu.tr Phone: 0 224 294 17 99						
17	Website:								
18	Objective of the Course:	betwee goals a	The aim of the course is to make the students gain the relation between soil properties and plant development and distribution. The goals are to teach the physical and chemical properties of soils and their effects on plants.						
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Understanding the role of soil for ecosystems.						
		2	Understanding the origin and soil development.						
		3	Understanding the relationships between soil physical characteristics and plants.						
		4	Understanding the relationships between soil chemical characteristics and plants.						
			Understanding the relationships between soil soil nutrients and plants.						
		6	Understanding the relationships among soil organisms, soils and plants.						
		7	Performing the main methods in determination of the some soil characteristics.						
		8	Understanding the main subjects in the soil conservation.						
		9							
		10							

21	Course Content:																			
	Course Content:																			
Week	Theore	tical						Pra	Practice											
1	The importance and origin of soil.								Determinaton of particle and bulk density.											
2	Soil dev	d soil	profile			De	Determination of soil humidity.													
3	Soil text	ure an	d sruc	ture.				De	Determination of water holding capacity (WHC).											
4	Soil por	osity a	nd aer	ation.				De	Determination of soil permeability.											
5	Soil tem								Determination of CaCO3.											
6	decomposition.									Determination of soil organic matter.										
7	Repeating courses and midterm exam									-										
8										Determination of soil organic matter by Wakley-Black method.										
9	Soil wat					Kje	Determination of inorganic nitrogen (NO3- and NH4+) by Kjeldhal microdestillation (I).													
10	Soil solu					Kje	Determination of inorganic nitrogen (NO3- and NH4+) by Kjeldhal microdestillation (II).													
11	Soil pH				•			_			of soil pl									
12	Soil sali	effects	s on pla	ants.		(I).	Determination of total nitrogen by Kjeldhal microdestillation (I).													
13									Determination of total nitrogen by Kjeldhal microdestillation (II).											
Activit	Activites								Numb	er		Dura	Duration (hour)			Total Work Load (hour)				
Theore								De	Demar ubilshers inc., 1					14.00						
										14				2.00						
Self stu	tudy and preperation R									10				2.00						
	neworks								9				2.00							
<b>P</b> Hi <del>j</del> ect										0.00				0.00						
Field St									0			0.00	0.00							
FinateFri										60100			20.00							
Others	3									0			0.00							
<b>Eimatrie</b>	externing Activities to 4									40100			20.00							
	/ork Load													120.00						
Contrib Total W	SHS 1284	-30 <sup>a</sup> hF	xam to	Suco	cess G	rade		60.	60.00					4.00						
ECTS (	Credit of	the Co	urse						4.00						4.00					
Measur Course	rement a	nd Eva	luatio	n Tec	hnique	s Use	d in th	e												
24	ECTS	/ WO	RK L	OAD	TAB	LE														
25			CON	TRIE	UTIO	N OI				OUTC ATIO		S TO I	PROC	GRAM	ME					
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16				
ÖK1	0	0	0	4	0	4	0	3	0	0	0	0	0	0	0	0				
ÖK2	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0				
ÖK3	0	0	0	4	0	5	0	0	0	0	0	0	0	0	0	0				
			I	I		I			1	1		I		I	1					

Contrib 1 very low ution Level:			2 low			3 Medium			4 High			5 Very High				
LO: Learning Objectives PQ: Program Qualifications																
ÖK8	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0
ÖK7	0	0	0	4	0	0	0	0	0	0	0	4	0	0	0	0
ÖK6	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	4	0	5	0	0	0	0	0	0	0	0	0	0