		SOIL	PHYSICS					
1	Course Title:	tle: SOIL PHYSICS						
2	Course Code:	TPR3907-Z						
3	Type of Course:	Compuls	ory					
4	Level of Course:	First Cyc	le					
5	Year of Study:	3						
6	Semester:	5						
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:	No						
12	Language:	Turkish						
13	Mode of Delivery:	Face to face						
14	Course Coordinator:	Doç.Dr. ZEYNAL TÜMSAVAŞ						
15	Course Lecturers:							
16	Contact information of the Course Coordinator:	zeynal@uludag.edu.tr, 0224.2941536, U.Ü. Ziraat Fak. Toprak Bilimi ve Bitki Besleme Bölümü. Görükle-Nilüfer/Bursa						
17	Website:							
18	Objective of the Course:	The phases in soil and describe their static and dynamic relations among of phases, assess the affects physical properties of soil which affect crop production and find solutions to problems.						
19	Contribution of the Course to Professional Development:							
20	Learning Outcomes:							
		1	Is equipped with basic knowledge of soil physics.					
		2	Knows the effects of soil physical conditions for the plant grow.					
		3	Can do soil anaysis to determine the soil physical properties and can use the equipments utilized fort his purpose.					
		4	Knows the effects of different agricultural practices to soil physical conditions and can make suggestions for solving the problems that may arise.					
		5						
		6						
		7						
		8						
		9						
		10						
21	Course Content:							
		Co	burse Content:					
	Theoretical		Practice					
1	Definition of soil physics, interests, it importance and purposes.		Purposes of taking soil samples, sampling method, points to be considered in taking soil samples.					
2	The physical condition of the soil, the and mass relationships of the three- soil		Determine the specific gravity of soils					

3	Solid	pha	se of	soil, s	oil tex	ture			M	Mechanical analysis of soil (texture analysis)							
4	Class	es d	of soil	textur	e, soi	l struct	ure		E١	Evaluate the results of the mechanical analysis of soil							
5	Aggre	gat	e forn	nation	and s	stability			De	etermir	e the b	oulk der	nsity of	soil			
6	Deter	min	ation	of soil	struc	tural co	onditio	n	De	Determination of soil porosity							
7	Soil a	aeration					The theoretical description of the the wet sieving method used for determining of aggregate stability										
8	Midte	term exam, course assessment					De	Determination of moisture content of soils									
9	surfac							EC analysis or sample application that shows the formation of electrical double layer									
10	Types	bes of water and water movement in soil					Pe	Percentage of soil saturation									
11		asurement of soil water content and its ression.					Ar	Analysis the moisture of air-dry soil (absolute humidity)									
12	The te	e temperature of soil					Тс	To show how to take soil samples from field as a practical									
13	The p	e potential energy of soil water					De	etermir	ation o	of field o	capacity	moist	ure con	tent of s	oils		
14		general repetition of incomprehensibled bjects					Pr	Practical exam, course assessment									
22	Mater	extbooks, References and/or Other laterials:						Вс •Т	 Yeşilsoy, M.Ş. 1995. Soil Physics. Ç. Ü. Agr. Fac. Course Book, Adana. Tuncay, H. 1994. Soil Physics. E. Ü. Agr. Fac. Course Book No: 28, İzmir. 								
23	Asses	sme	ent														
Activit	Activites						Number			Dura	Duration (hour)			Total Work Load (hour)			
R Neizore	Aveoretical 0						0.	0.99			2.00	2.00 2					
Practica	Practicals/Labs							14		2.00	2.00			28.00			
50Pst	Self Strong and preperation 1						60	601Q0			3.00	3.00			42.00		
Homew	Iomeworks							0			0.00	0.00			0.00		
PRNtrike	நலுசுத்துtion of Term (Year) Learning Activities to						40	40 ₀ 00			0.00	0.00 0.00					
	Field Studies								0			0.00	0.00 0.00				
Midtern	ntribution of Final Exam to Success Grade							0	б у 00			10.00	10.00 10.00				
Others	ers								0			0.00	0.00			0.00	
Maase	ABEREMENT and Evaluation Techniques Used in the							е	1			12.00	12.00 12.00				
	otal Work Load											130.00					
Total w	al work load/ 30 hr											4.00					
ECTS (TS Credit of the Course							4.00									
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	P	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4		0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0		0	0	0	0	0	4	0	0	3	0	0	0	0	0	0
ÖK3	0		0	0	3	0	0	0	0	0	3	0	0	0	0	0	0
ÖK4	0		0	0	0	0	0	4	0	0	0	3	0	0	0	0	0
	LO: Learning Objectives PQ: Program Qualifications																

Contrib ution	1 very low	2 low	3 Medium	4 High	5 Very High
Level:					