	SOIL GENE	SIS A	ND CLASSIFICATION								
1	Course Title:	SOIL GE	ENESIS AND CLASSIFICATION								
2	Course Code:	TPR490	1								
3	Type of Course:	Compuls	sory								
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:	Prof. Dr.	ERTUĞRUL AKSOY								
15	Course Lecturers:	yok									
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme Bölümü 16059 Görükle Kampüsü, Nilüfer/Bursa Tel: 0-224-2941534 E-posta: aksoy@uludag.edu.tr									
17	Website:										
18	Objective of the Course:	Soil form identification properties basic pri	To gain knowledge and skills on: Soil formation and soil forming factors; Soil characteristics and identification; description of physical, chemical and morphological properties of soils in the field; writing profile description cards; basic principles of the soil classification systems; classification systems and soil classification.								
19	Contribution of the Course to Professional Development:	Interpret the formation of soil profiles, define and sample their physical, chemical and morphological properties in the field. Knows soil classification systems.									
20	Learning Outcomes:										
		1	To implement the description of soil profile and horizons in the field.								
		2	To interpret the weathering in soil formation, soil formation and soil forming factors, the effects of soil forming factors on soil characteristics and their distribution.								
		3	To comprehend the basic principles of soil classification.								
		4	To comprehend the Soil Taxonomy and WRB (FAO/Unesco) soil classification systems widely used in Turkey.								
		5	To comprehend the classification of soils according to Soil Taxonomy and WRB (FAO/Unesco) soil classification systems using field and laboratory data								
		6									
		7									
		8									
		9									
		10									
21	Course Content:										

	Co	Course Content:								
Week	Theoretical	Practice								
1	-Introduction -Definition of soil and basic principles on soil concept -Soil morphology	 -Introducing the Soil Survey and Mapping Laboratory. -provide information on field works planning through the semester. -give information about the equipments used at field work. 								
2	-Characterization of the composition of soil -weathering on soil formation	-physical, geo-chemical, biological and pedo-chemical weathering and decomposition products (visual presentation).								
3	-Soil forming factors	-effects of parent material and topography to soil formation (visual presentation) -Effects of topography to soil erosion and soil formation (visual presentation).								
4	-Effects of the climate to soil formation -Biological events in soil formation -Time factor in soil formation	-Field work 1, and subje horizons, fill in the soil of undisturbed soil sampling	description cards, di							
5	-Pedogenic processes -Formation of Alluvial and organic soils	-Field work-2: Alluvial soils, on site observation.								
6	Soil classification concept	Reporting the profile ide	entification cards.							
7	Soil classification concept, presentation of profiles described at the field	Explanation of results of Homework-1 and discussion on field work.								
8	Basic Principles and structures of Soil Taxonomy, Categorical level, Diagnostic horizons, Orders and suborders.	- Field work-3 (and subject of Homework-2) Students are divided into groups to describe and sample soil profile and horizons themselves. Description of soil profiles made according to Soil Taxonomy.								
Activit	tes	Number	Duration (hour)	Total Work Load (hour)						
Th eo re	iक्षीdisols	Properties of soils class	fæ@Qas	28.00						
Practic	als/Labs	14	2.00	28.00						
Self stu	dy and preperation	14	2.00	28.00						
Homev		2	2.00	4.00						
Project	PUltisols	-Use of Keys to soil tax	Porny guide.	0.00						
Field S	tudies	0	0.00	0.00						
Mid te rr	I-Oxisols I-Histosols	Properties of soils class Gelisol Orders (visual p	itledas Oxisol, His resentation)	9800and						
Others		0	0.00	0.00						
Final E	kams	1	20.00	20.00						
Total V	Vork Load			124.00						
Total w	ork load/ 30 hr	- explanation of results		4.13						
ECTS	Credit of the Course			4.00						
		semester Focuses on issues and of the students.	d problems accordir	ng to the wishes						
14	presentation and evaluation of homework reports	Evaluation of home-wor	k reports, Disclosur	re of possible						

22	Textbooks, References and/or Other Materials:									Dinç, U., Kapur, S., Özbek, H., Şenol, S.1999. Toprak Genesisi ve Sınıflandırması, 3.baskı. Çukurova Üniversitesi Ziraat Fakültesi Ders Kitabı No:C-130, ÇÜZF, Adana.376s.								
									Geo	Diressen, P.M., Dudal R., 1989. Lecture Notes on the Geography, Formation, Properties and use of the Mojor Soils of the World. Agricultural Univ. Wageningen.								
									Mo	Fanning, D.S. and M.C.B. Fanning, 1989. Soil: Morphology, Genesis and Classification,. John Wiley and Sons, USA . 395p.								
									W.[Sar	Schoeneberger, P.J., D.A. Wysocki, E.C. Benham and W.D. Broderson, 2002. Field Book for Describing and Sampling Soils, Version 2.0, p: 189. National Soil Survey Center, Lincoln., NE.USDA-NRCS.								
										Soil Survey Staff 1999. Soil Taxonomy: A Basic System of Soil Classification for Making and Interpreting Soil Surveys. 2nd edn. USDA-NRCS Agric. Handbook No. 436. US Government Printing Office, Washington, DC, USA, 871 p.								
									ed.	Soil Survey Staff 2014. Keys to Soil Taxonomy. Twelfth ed. USDA-NRCS. US Government Printing Office, Washington DC, USA, 353 p.								
									Rev	FAO/UNESCO, 1990. FAO-Unesco Soil Map of the World, Revised Legend, p: 119. World soil resources report No: 60, FAO, Rome, Italy								
										FAO.,1990. Guidelines for Soil Profile Description, Rome, Italy								
									Mai 4,0	Burt, R. (ed.) 2004. Soil Survey Laboratory Methods Manual. Soil Survey Investigations Report No. 42, version 4,0. USDA-NRCS, US Government Printing Office, Washington, DC, USA, 700 p.								
23	Asse	smer	nt															
TERM L	EARN	NING .	ACTI\	/ITIES			N F	NUMBE R	WE	IGHT								
Midtern	n Exa	m					1		20.	20.00								
Quiz							C)	0.0	0.00								
Home v	work-p	oroje	ct				2	2	20.	20.00								
Final E	xam						1		60.	60.00								
Total	Total 4								1100	100.00								
Contribution of Term (Year) Learning Activities to Success Grade																		
	ss Gra	ide	·	·				s to	40.0	00								
Contrib	ss Gra	ide	·	·				s to	40.0	00								
Total	ss Gra	of Fir	nal Ex	am to	Succ	ess G	rade		60.0	00								
Total	ss Gra	of Fir	nal Ex	am to	Succ	ess G	rade		40.0 60.0 100 e Mid	00 00 0.00 dterm		homew e exam			perform	ance to		
Total Measu	ss Gra	of Fir	nal Ex	cam to	Succ	ess G	rade s Use		40.0 60.0 100 e Mid	00 00 0.00 dterm						ance to		
Total Measu Course	oution remer	of Fir	nal Exal	cam to	Succentration Technology	cess G	rade s Use	ed in the	40.0 60.0 100 e Mid lect	00 00 0.00 dterm (ture, p	ractice	e exam	and fina	al exan				
Total Measur Course 24	oution remer	of Financian and	nal Example of the control of the co	cam to	Succentration Succentration	cess G	rade s Use	F LEA	40.0 60.0 100 e Midlect	00 00 0.00 dterm of ture, p	OUTO	e exam	and fina	al exan	RAMI	ME	PQ16	
Total Measur Course 24	oution remer	of Fire of Fir	mal Example of Evaluation (luation	Succentration Succentration	cess G	rade s Use	F LEA	40.0 60.0 100 e Midlect	00 00 0.00 dterm of ture, p	OUTO	e exam	and fina	PROC	RAMI	ME	PQ16	

Contrib 1 very low ution Level:			2 low		3	Medi	um	4 High			5 Very High					
	LO: Learning Objectives PQ: Program Qualifications															
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	4	0	5	0	0	4	4	3	5	5	3	0	0	0	0
ÖK2	5	4	0	5	0	0	0	0	0	4	5	0	0	0	0	0