	SOIL MORPHO	LOG	AND CLASSIFICATION						
1	Course Title:	SOIL MO	DRPHOLOGY AND CLASSIFICATION						
2	Course Code:	TOP595	3						
3	Type of Course:	Optional							
4	Level of Course:	Second	Cycle						
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	6.00							
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:	Presenting basic principle of Soil Taxonomy and WRB (FAO/Unesco) classification systems and to teach classification techniques of Soil Taxonomy and WRB (FAO/Unesco) soil classification systems and using methodology of field, laboratory and meteorological data during the soil classification.							
19	Contribution of the Course to Professional Development:	Knows the most used soil classification systems and their properties in the world and in our country, and can classify soil profiles according to these systems.							
20	Learning Outcomes:								
		1	To describe the principles and application of soil classification.						
		2	To interpret the Soil Taxonomy and WRB (FAO/Unesco) soil classification systems.						
		3	To implement soil classification according to Soil Taxonomy and WRB (FAO/Unesco) classification systems using field, laboratory and meteorological data.						
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21	Course Content:								
14/		Co	burse Content:						
Week	Theoretical		Practice						

1	Introduction Definition of soil and basic principles on soil concept Soil morphology	The great soil groups developed in Turkey							
2	Soil forming factors	The effect of soil forming factors (climate, natural vegetation, topography and time) on soil formation and their distribution.							
3	Soil classification concept and soil classification systems	Soil classification in Tur	key.						
4	Basic Principles and structures of Soil Taxonomy and WRB (FAO/unesco) systems Nomenculature Categorical level	Determination of Physic analysis result of the de meteorological data ac principles	fined soil profile and	d					
5	Diagnostic horizons Epipedons (diagnostic surface horizons)	Determining of the epip chemical and morpholo		Physical,					
6	Diagnostic horizons diagnostic subsurface horizons	Determining of the diag given Physical, chemica							
7	Diagnostic properties soil moisture and soil temperature regime	Determining of the soil moisture and soil temperature regime due to meteorological data (given 1. Homework subjects)							
8	sample profiles and presentations to the homework subject	Advanced studies on homework-1.							
9	Order and suborder Entisols Vertisols İnceptisols	Use of Keys to soil taxonomy guide for soil classification Properties of soils classified as Entisol, Vertisol and Inceptisol Orders Use of Keys to soil taxonomy guide. Field study.							
Activit	tes	Number	Duration (hour)	Total Work Load (hour)					
Thepre	Affisols	Properties of soils class	ife@as	28.00					
Practic	als/Labs	14	2.00	28.00					
Self stu	dy and preperation	Folkel study.	2.00	28.00					
Homev		3	15.00	45.00					
Project	Gelisols	Use of Keys to soil taxo	nomy guide.	0.00					
Field S	tudies	4	8.00	32.00					
Midterr	The WRB (FAO/Unesco) Soil classification	Use of WRB (FAO/Une	စည်နှoil classificatio	0.8ystem					
Others		0	0.00	0.00					
Final E	aresentation and evaluation of homework	Evaluation of homework	2000ts, explanation	120f000ssible					
Total M	Vork Load			181.00					
TOtar									
	vork load/ 30 hr			6.03					

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. 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. Fanning, D.S. and M.C.B. Fanning, 1989. Soil: Morphology, Genesis and Classification,. John Wiley and Sons, USA . 395p. 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. Soil Survey Staff 2006. Keys to Soil Taxonomy. 10th edn. USDA-NRCS. US Government Printing Office, Washington DC, USA, 332 p. 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 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	Assesment	

TERM LEARNING ACTIVITIES	NUMBE R	WEIGHT						
Midterm Exam	0	0.00						
Quiz	0	0.00						
Home work-project	0	0.00						
Final Exam	1	100.00						
Total	1	100.00						
Contribution of Term (Year) Learning Activitie Success Grade	es to	0.00						
Contribution of Final Exam to Success Grade	е	100.00						
Total		100.00						
Measurement and Evaluation Techniques Us Course	sed in the	term homeworks, attandes performance to lecture and final exam						

24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 0														
ÖK1	5	4	0	5	4	4	0	0	0	4	5	0	0	0	0	0

ÖK2	5	4	0	5	0	0	0	0	0	4	5	0	0	0	0	0
ÖK3	5	4	0	5	0	0	4	4	3	5	5	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib1 very low2 lowutionLevel:							3 Medium 4 High 5 Very High							y High		