

T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

	COURSE IDENTIFICATION FORM							
Course Code ar SOIL MECHAN		3 EXPERIMENTAL		Department of : MASTER'S PROGRAM IN CIVIL ENGINEERING WITH THESIS				
Semester	Theoretic Hour	Practice Hour	Total Hour	Credits	ECTS	Education Language	Type: Compulsory Elective	
Fall	3	0	3	3	5	Turkish	Optional	
Prerequ	iisite (s)							
Instructor		Assist. Prof. Özlem ERDEM				Mail: osenerdem@munzur.edu.tr Web:		
Course Assistant		Mail: Web:						
Groups / Classes								
Course Goals		properties of soils. To teach the basic and standard experiments performed in the laboratory in order to determine the engineering properties of soils, their evaluation and their place and meaning in foundation engineering applications. To teach how to write a soil laboratory report. To teach how to conduct experiments, collect data, analyze and interpret the results.						
 Learns how the soil behaves under stress and over tine. Learns how soil properties are determined and the navalues of these values in terms of soil behavior. Can perform classification experiments. Determine the shear strength of the soil. Gains the ability to determine the compaction proper 			the meaning and limit					
Course Basic : Cont	•	 Ders Notlari Bardet, J.P., 1997, Experimental Soil Mechanics, Prentice Hall, USA. Bowles, J.E., 1993, Engineering Properties of Soils and Their Measurement, McGraw-Hill, USA. Das, B.M., 1992, Soil Mechanics Laboratory Manual, Engineering Press, USA. 						



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	 Lambe, W.T., 1969, Soil Testing for Engineers, John Wiley and Sons, USA
Methods of Give a Lecture	Lecture, Discussion on case studies, Demonstration (telling and doing by showing, making the student do it)

Assessment Criteria			If Available, to Sign (x)	General Average Percentage (%) Rate	
		1. Quiz	X	50	
		2. Quiz			
		3. Quiz			
		4. Quiz			
		5. Quiz			
		Oral Examination			
		Practice Examination			
		(Laboratory, Project etc.)			
		Final Exam	X	50	
		Semester Course	Plan		
Week	Subjects				
1	Introduction; Basic Definitions. Soil Samples, Laboratory Report				
2	Water content, liquid, plastic and shrinkage limit tests.				
3	Determination of liquid limit by falling cone test.Preparation of samples for sieve				
4	analysis.				
<u>4</u> 5	Sieve analysis and hydrometer test.				
6	Student presentations Specific growity and relative firmness tests				
7	Specific gravity and relative firmness tests Compaction-Standard Proctor Test and California Bearing Ratio (CBR) Test				
8	MIDTERM EXAM				
9	Consolidation tests. Falling and constant level permeability tests.				
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11	Shear Box test				
12	Free pressure test				
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13	Triaxial (UU) Experiment. Establishment of CU experiment.
14	CU experiment saturation control, CU experiment construction.