

T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

COURSE IDENTIFICATION FORM								
	nd Name: IM501 S IN CIVIL ENC			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	uisite (s)							
Instr	Instructor		Assist. Prof. Özlem ERDEM				Mail: osenerdem@munzur.edu.tr Web:	
Course A	Course Assistant				Mail: Web:			
Groups	/ Classes							
Course Aim		To ensure that geological information and data are digitized and used in engineering works, to teach how to find and interpret engineering properties of rocks and soils, to define mass movements and to determine ways to prevent them, to teach how to make dam site studies and tunnel rock classifications, to teach how to make material investigations, to teach how to make engineering geology maps.						
Course Goals								
Course Learning Outs and Proficiencies engineer applied 1 - The stuengineer and applied 1 - As a rein the air predeter undergrounde		engineering applied known - The studer engineering and apply applied - As a result in the aim of predeterming underground - The studer	e student has sufficient knowledge in mathematics, science and related neering discipline specific subjects; gains the ability to use theoretical and led knowledge in these areas in complex engineering problems. The student gains the ability to identify, define, formulate and solve complex neering problems; for this purpose, the student gains the ability to select apply appropriate analysis and modeling methods. In a result of the theoretical and practical teaching of the properties specified are aim of the course, the student gains the ability to take precautions by etermining the problems that may be encountered in surface and arground ground / rock environments. The student will have knowledge on issues such as increasing safety in truction areas and reducing costs. The student gains the knowledge of determining the correct route selection. The student gains the ability to use engineering geology knowledge in civil meering projects and the ability of drilling logs and evaluations.					



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Course Basic and Auxiliary Contexts	 Ders Notlari Kaya Şev Stabilitesi", E. HOEK KELLER, E.A., PINTER, N., "Active Tectonics, Earthquakes, Uplift, and Landscape", Pearson Education, 363s, 2002. PRESS, F., SİEVER, R., GROTZINGER, J., JORDAN, T.H., Understanding Earth (IV. Edition), W.H. Freeman and Company, New York, 567s, (2004). ARIOĞLU, E., YILMAZ, A. O., "Çözümlü Problemlerle Tünel/Galerilerin-Sismik Analizi", TMMOB Maden Mühendisleri Odası İstanbul Şubesi Yayın No: 111, 312 s., 2006. "Mühendisler için Jeoloji Bilgileri, Genişletilmiş 2. Baskı" (2013), Prof.Dr.Mustafa YILDIRIM, Prof.Dr.Erkan GÖKAŞAN "İnşaat Jeolojisi", Prof. Dr. Mahir VARDAR, İTÜ Yayını (1991) "Mühendislik Jeolojisi", Prof. Dr. Kemal ERGUVANLI, Seç Yayın (1982); 	
Methods of Give a Lecture	Lecture, Discussion on case studies, Demonstration (telling and doing by showi 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	Teaching the geological classification of rocks					
2	Teaching the properties of rocks					



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3	Teaching mass movements		
4	Teaching the factors affecting the properties of rocks		
5	Teaching the factors affecting the properties of rocks		
6	Teaching the classification of rocks for engineering purposes		
7	Teaching geotechnical problems observed in rocks		
8	MIDTERM EXAM		
9	Teaching the stability of slopes		
10	Teaching the stability of slopes		
11	Teaching methods to increase the stability of slopes		
12	Teaching methods to increase the stability of slopes		
13	Teaching the bearing capacity of rocks		
14	Teaching the bearing capacity of rocks		