IM 364 SOIL MECHANICS II		CIVI	CIVIL ENGINEERING				
C	Credit Structure						
Semester	Lecture	Recitation	Laboratory				
6	3	0		1			
Language	English						
Compulsory / Elective	Compulsory						
Prerequisites	IM 361 Soil Mechanics I						
Catalog Description	Shear strength of soils. Lateral earth pressure theories. Slope stability; short and long-term analysis. Bearing capacity of soils with reference to shallow foundations.						
Course Objectives	To provide a clear explanation of the fundamental principles of soil mechanics.						
Course Outcomes	Having a knowledge of practical application in Geotechnical engineering.						
Textbook and /or References	R.F. Craig, Soil Mechanics, ELBS, England, 1990						
Assessment Criteria			Quantity	Percentag			
	Midterm Exams		2	60			
	Quizzes		-				
	Homeworks		-				
	Projects		-				
	Term Paper		-				
	Laboratory Work		-				
	Other		-				
	Final Exam		1	40			
Course Category by	Mathematics and Ba	sic Sciences	25				
Content (%)	Engineering Science		50				
	Engineering Design		25				
			-				
	Social Sciences			-			

	COURSE PLAN				
Week	Topics				
1	Shear strength of soils				
2	Shear strength of soils				
3	Shear strength of soils				
4	Shear strength of soils				
5	Lateral earth pressure theories				
6	Lateral earth pressure theories				
7	Lateral earth pressure theories				
8	Slope stability; short and long-term analysis				
9	Slope stability; short and long-term analysis				
10	Slope stability; short and long-term analysis				
11	Slope stability; short and long-term analysis				
12	Bearing capacity of soils with reference to shallow foundations				
13	Bearing capacity of soils with reference to shallow foundations				
14	Bearing capacity of soils with reference to shallow foundations				

	RELATIONSHIP BETWEEN THE COURSE AND DEPARTMENT CURRICULUM					
	Program Outcomes		2	3		
1	An ability to apply knowledge of mathematics, science, and engineering		X			
2	An ability to design and conduct experiments, as well as to analyze and interpret data		X			
3	An ability to design a system, component, or process to meet desired needs		X			
4	An ability to function on multi-disciplinary teams		X			
5	An ability to identify, formulate, and solve engineering problems		X			
6	An understanding of professional and ethical responsibility			X		
7	An ability for effective written and oral communication in Turkish and English			X		
8	The broad education necessary to understand the impact of engineering solutions in a global and societal context			X		
9	A recognition of the need for, and ability to engage in life-long learning			X		
10	A knowledge of contemporary issues		X			
11	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice		X			
	Contribution of the course: 1:None 2:Partially			oletely		