



COURSE INFORMATION FORM

Course Name	Course Code
GEOTECHNICAL PROJECT	151417652

Semester	Number of Course Hours per Week		ECTS
	Theory	Practice	
7	3	0	5

Course Category (Credit)				
Basic Sciences	Engineering Sciences	Design	General Education	Social
	2	3		

Course Language	Course Level	Course Type
Turkish	Undergraduate	Elective

Prerequisite(s) if any	
Objectives of the Course	The main aim of the course is to enable students to apply their theoretical knowledge to case studies and prepare a report for experience and knowledge they gained.
Short Course Content	This course contains design details and construction procedures of reinforced soils, foundation, retaining wall, and slope stability. .

Learning Outcomes of the Course	Contributed PO(s)	Teaching Methods *	Measuring Methods **
1 Knows the basic principles, concepts and analyses related to geotechnical design in terms of Civil Engineering.	1, 2, 3, 9	1, 11, 14	J
2 Can perform slope stability analysis.	1, 2, 3, 9	1, 11, 14	J
3 Can perform deep excavation design and calculations.	1, 2, 3, 9	1, 11, 14	J
4			
5			
6			
7			
8			

***Teaching Methods** 1:Expression, 2:Discussion, 3:Experiment, 4:Simulation, 5:Question-Answer, 6:Tutorial, 7:Observation, 8:Case Study, 9:Technical Visit, 10:Trouble/Problem Solving, 11:Individual Work, 12:Team/Group Work, 13:Brain Storm, 14:Project Design / Management, 15:Report Preparation and/or Presentation

****Measuring Methods** A:Exam, B:Quiz, C:Oral Exam, D:Homework, E:Report, F:Article Examination, G:Presentation, I:Experimental Skill, J:Project Observation, K:Class Attendance; L:Jury Exam

Main Textbook	Lecture Notes
Supporting References	Bowles, J.E., 1986 , Engineering properties of soils and their measurement: McGraw-Hill Publishing company, 218 Bowles, J.E., 1986 , Foundation analysis and design, McGraw-Hill Publ. Das, B. M., 2002 , Principles of Geotechnical Engineering, Brooks and Cole
Necessary Course Material	

Course Schedule	
1	Determination of the project subject and announcement
2	Literature revive and assessment
3	General evaluation of the literature review about project
4	Gathering the information used in the analyses or preparation of the test equipments.
5	Analyses on the basis of collected data
6	Analyses on the basis of collected data
7	Analyses on the basis of collected data
8	Mid-Term Exam
9	Consequence assessment
10	Consequence assessment
11	Consequence assessment
12	Consequence assessment
13	Writing the project report and completion
14	Writing the project report and completion
15	Project presentations
16,17	Final Exam

Calculation of Course Workload			
Activities	Number	Time (Hour)	Total Workload (Hour)
Course Time (number of course hours per week)	14	3	42
Classroom Studying Time (review, reinforcing, prestudy,...)	14	3	42
Homework			
Quiz Exam			
Studying for Quiz Exam			
Oral exam			
Studying for Oral Exam			
Report (Preparation and presentation time included)			
Project (Preparation and presentation time included)	1	60	60
Presentation (Preparation time included)			
Mid-Term Exam			
Studying for Mid-Term Exam			
Final Exam			
Studying for Final Exam			
Total workload			144
Total workload / 30			4,8
Course ECTS Credit			5

Evaluation	
Activity Type	%
Mid-term	
Quiz	
Project Observation	100
Bir öge seçin.	
Bir öge seçin.	
Final Exam	
Total	100

RELATIONSHIP BETWEEN THE COURSE LEARNING OUTCOMES AND THE PROGRAM OUTCOMES (PO) (5: Very high, 4: High, 3: Middle, 2: Low, 1: Very low)		
NO	PROGRAM OUTCOME	Contribution
1	Sufficient knowledge of engineering subjects related with mathematics, science and own branch; an ability to apply theoretical and practical knowledge on solving and modeling of engineering	3
2	Ability to determine, define, formulate and solve complex engineering problems; for that purpose an ability to select and use convenient analytical and experimental methods.	3
3	Ability to design a complex system, a component and/or an engineering process under real life constrains or conditions, defined by environmental, economical and political problems; for that	5
4	Ability to develop, select and use modern methods and tools required for engineering applications; ability to effective use of information technologies.	
5	In order to investigate engineering problems; ability to set up and conduct experiments and ability to analyze and interpretation of experimental results.	
6	Ability to work effectively in inner or multi-disciplinary teams; proficiency of interdependence.	
7	Ability to communicate in written and oral forms in Turkish/English; proficiency at least one foreign language.	
8	Awareness of life-long learning; ability to reach information; follow developments in science and technology and continuous self-improvement.	
9	Understanding of professional and ethical issues and taking responsibility	4
10	Awareness of project, risk and change management; awareness of entrepreneurship, innovativeness and sustainable development.	
11	Knowledge of actual problems and effects of engineering applications on health, environment and security in global and social scale; an awareness of juridical results of engineering solutions.	

LECTUTER(S)				
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Signature(s)				

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