HASAN KALYONCU UNIVERSITY
Faculty of Engineering
Course Description Form

COURSE: Soil Mechanics 2				
CODE: CE362	**SEMESTER:** SPRING			
LANGUAGE: ENGLISH	**TYPE:** COMPULSORY			
PRE-REQUISITES: - **CO-REQUISITES: -**	**THEORY**	**PRACTICAL**	**CREDIT**	**ECTS**
WEEKLY HOURS: 3	3	0	3	4

CONTENT OF THE COURSE:
Consolidation theory, shear strength of soils, lateral earth pressure, gravity walls, slope stability.

OBJECTIVE OF THE COURSE:
To give the ability to make soil strength and settlement calculations. To give the ability to make the design of gravity walls and slopes at basic level.

WEEKLY SCHEDULE	
Week	**Topics**
1	Generel review
2	Consolidation theory
3	Consolidation theory
4	Consolidation theory
5	Shear strength of soils
6	Shear strength of soils
7	Shear strength of soils
8	Midterm Week
9	Lateral earth pressures
10	Lateral earth pressures
11	Gravity walls
12	Gravity walls
13	Slope stability
14	Slope stability

TEXTBOOK: • Craig, R. F. (1997) Soil Mechanics (sixth or later edition)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
LO1	3	1	0	0	3	0	0	0	0	0	0
LO2	3	1	0	0	1	0	0	0	0	0	0
LO3	2	1	0	0	1	0	0	0	0	0	0
LO4	2	3	0	0	3	0	0	0	0	0	0
LO5	1	3	0	0	3	0	0	0	0	0	0
	PO: Program Outcomes | LO: Learning Outcomes Values: 0: None | 1: Low | 2: Medium | 3: High										

INSTRUCTOR(S):	Asst. Prof. Dr. Volkan Kalpakcı
FORM PREPARATION DATE:	22.05.2019

LEARNING OUTCOMES OF THE COURSE:

LO1: Consolidation theory.
LO2: Strength of soils and related theories.
LO3: Calculation of soil strength parameters from experimental data
LO4: Lateral earth pressures and design of gravity walls.
LO5: Safe slope design at basic level.

CONTRIBUTION TO PROVIDING VOCATIONAL EDUCATION: The student can calculate the settlements of the structures, design retaining walls and perform landslide analyses by the theoretical knowledge he/she has learned.