



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Soil Mechanics - II							
Course Code		İNA202		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The student will be able to determine the mechanical properties of the ground by conducting experiments in accordance with its standard.							
Course Content		Index properties, classification of soils, soil water, shear strength, stress distribution of soils, seats, bearing capacity, lateral soil pressures, retaining walls							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Project Based Study, Individual Study, Problem Solving					
Name of Lecturer(s)		İns. İbrahim Engin ÖZTÜRK							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	Ground Mechanics Dr. Kutay Ozaydin
2	Soil Mechanics Laboratory Experiments and Problems M. Yıldırım
3	Lecture notes prepared by responsible teacher will be used
4	All books, brochures, magazines and web pages related to Professional Practices

Week	Weekly Detailed Course Contents	
1	Theoretical	Compression of Soils
	Practice	Compression of Soils
2	Theoretical	Seating of Floors
	Practice	Seating of Floors
3	Theoretical	Shear Strength of Soils
	Practice	Shear Strength of Soils
4	Theoretical	Carrying Capacity and Free Pressure Strength of Soils
	Practice	Carrying Capacity and Free Pressure Strength of Soils
5	Theoretical	Carrying Capacity and Free Pressure Strength of Soils
	Practice	Carrying Capacity and Free Pressure Strength of Soils
6	Theoretical	Permeability of Soils
	Practice	Permeability of Soils
7	Theoretical	Permeability of Soils
	Practice	Permeability of Soils
8	Theoretical	California Transportation (CBR) Ratio of Floors
	Practice	California Transportation (CBR) Ratio of Floors
9	Intermediate Exam	Midterm
10	Theoretical	California Transportation (CBR) Ratio of Floors
	Practice	California Transportation (CBR) Ratio of Floors
11	Theoretical	Earth Pressure
12	Theoretical	Earth Pressure
13	Theoretical	Earth Pressure
14	Theoretical	Ground Improvement
15	Theoretical	Ground Improvement
16	Final Exam	Semester final exam



**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	2	0	1	2
Term Project	2	0	2	4
Laboratory	2	0	2	4
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = <b>ECTS</b>				2

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

1	He / she will be able to do mechanical experiments on the ground
2	The grounds will be able to detect the transport capacity.
3	He will be able to calculate the lateral soil pressure
4	He will be able to verify retaining structures
5	Will be able to determine the methods of soil improvement

**Programme Outcomes (Construction Technology)**

1	Being able to have professional knowledge and skills as a result of being supported by the application on vocational qualifications gained in secondary education
2	To choose and use building materials
3	Building installations can be done
4	Applying concrete technology
5	Construction of roads
6	To be able to make professional computer applications
7	Technical drawings
8	Making professional drawing
9	Bidding and contracting
10	To be able to organize the site
11	Control and documentation of manufacturing
12	Can make application of building repair and strengthening works
13	To be able to determine soil types and make soil tests
14	Can control water supply and transmission activities
15	Making waste treatment facilities for polluting resources
16	Projecting of construction elements
17	Being able to make a professional project
18	Make land measurements
19	To be able to make professional practices

**Contribution of Learning Outcomes to Programme Outcomes** 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	5	5	5	5	5
P4	4	4			
P5	4	4	4	4	4
P10	4	4	4	4	4
P12	4	4	4	4	4
P13	5	5	5	5	5
P14	4	4	4	4	4
P15	4	4	4	4	4
P16	3	3	3	3	3
P17	3	3	3	3	3
P18	3	3	3	3	3
P19	3	3	3	3	3

