SOIL MECHANICS II										
1	Course Title:	SOIL ME	ECHANICS II							
2	Course Code:	INS3072								
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	cle							
5	Year of Study:	3								
6	Semester:	6								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	1.00								
10	Laboratory (hour/week):	1								
11	Prerequisites:									
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Dr. Ögr.	Üyesi YEŞİM SEMA ÜNSEVER							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	unsever@uludag.edu.tr								
17	Website:									
18	Objective of the Course:	Gain the ability to understand the theory and to dExplanation of calculations and problem solutions interest with soil and structures, which are replaced on soil by using fundamental soil mechanic's concept such as consolidation theory, shear strength of soils, lateral earth pressure and slope stability.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	To be capable to calculate consolidation settlement							
		2	Identification of shear strength of soil							
		3	To be able to calculate and analyze lateral earth pressures							
		4	To be able to define the slope stability							
		5	Gain the skill about defining the mechanical properties of soil by carrying out basic laboratory tests. And to be able to report the experiment results and evaluate them.							
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
	Course Content:									
Week	Theoretical		Practice							
1	Introduction		Theory, Problem Session							
2	Consolidation, Oedometer test		Theory, Problem Session							
3	Consolidation, Settlement calculation		Theory, Problem Session							
4	Consolidation, Settlement calculation	n	Theory, Problem Session							

5	Shear Strength of Soils and Related experiments		Theory, Problem Session								
6	Shear Strength of Soils and Related experiments		Theory, Problem Session								
7	Shear Strength of Soils and Related experiments		Theory, Problem Session								
8	Lateral Earth Pressures, Rankine The	eory	Theory, Problem Session								
9	Lateral Earth Pressures, Rankine The	eory	Theory, Problem Session								
10	Lateral Earth Pressures, Rankine The	eory	Theory, Problem Session								
11	Slope stability, Failure modes and the calculation methods	eir	Theory, Problem Session								
12	Slope stability, Failure modes and the calculation methods	eir	Theory, Problem Session								
13	Slope stability, Failure modes and the calculation methods	eir	Theory, Problem Session								
14	Stress Distribution in Soils		Problem Session								
22	Textbooks, References and/or Other Materials:		-ÖNALP, A., "Geoteknik Bilgisi 1- Çözümlü Problemlerle Zeminler ve Mekaniği" Birsen Yayınevi, 2007 - UZUNER, B.A. "Temel Zemin Mekaniği" Derya Kitabevi, 2007 - KNAPPETT, J. & CRAIG, R.F. Craig's Soil Mechanics, 2012 -MITCHELL, J.K.&SOGA, "Fundamentals of Soil Behaviour", 3.Ed.Wiley, 1992 -DAS, BM., "Principles of Geotechnical Engineering",								
Activit	tes		Number	Duration (hou	r) Total Work Load (hour)						
Th <b>geg</b> ore	ikstesment		14	2.00	28.00						
Practic	als/Labs		14	1.00	14.00						
Self stu	udy and preperation	1	30 00	3.00	42.00						
Homev			2	4.00	8.00						
Project	ts work-project	2	10 00	0.00	0.00						
Field S			0	0.00	0.00						
Midterr	<del>n exams</del>	'	2.00 2.00								
Others		1/1	100 00								
5inal A	<del>yanon or ronn (roar) Ecanning ∧onvin</del> \$ <b>%G</b> §ade	00 10	1	2.00	2.00						
	Vork Load				98.00						
<del>Total w</del>	vork load/ 30 hr		100.00		3.20						
ECTS	Credit of the Course		TOU UU		5.00						
rvieasu Course	rement and Evaluation recimiques os 3	sea in the									
	ECTS / WORK LOAD TABLE										
	ILOIO, HOILL LOAD IADEL										

## 24 | ECTS / WORK LOAD TABLE

## CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME **QUALIFICATIONS** PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 ÖK3

ÖK4	5	4	0	3	5	3	0	0	0	0	0	0	0	0	0	0
ÖK5 5 4 3 0 5 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												0				
Contrib 1 very low ution Level:		2	2 low		3 Medium		um	4 High		5 Very High						