	SC	DIL ME	ECHANICS II						
1	Course Title:	SOIL ME	ECHANICS II						
2	Course Code:	INS3072	2						
3	Type of Course:	Compuls	SORY						
4	Level of Course:	First Cyc							
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:	calculati which ar concept	e ability to understand the theory and to dExplanation of ons and problem solutions interest with soil and structures, re replaced on soil by using fundamental soil mechanic's such as consolidation theory, shear strength of soils, lateral essure 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:								
		Co	ourse Content:						
Week			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									Theory, Problem Session									
6	Shear S experim		n of So	oils an	id Rela	ted		Th	Theory, Problem Session											
7	Shear S experim		n of So	oils an	ld Rela	ited		Th	Theory, Problem Session											
8	Lateral I	Earth F	ressu	res, F	Rankine	Theo	ory	Th	Theory, Problem Session											
9	Lateral I	Earth F	Pressu	res, F	Rankine	Theo	ory	Th	Theory, Problem Session											
10	Lateral I	Earth F	ressu	res, F	Rankine	Theo	ory	Th	eory, F	Probler	n Sessi	ion								
11	Slope st calculati			e mo	des an	d theii		Th	Theory, Problem Session											
12											Theory, Problem Session									
13											n Sessi	ion								
14	Stress D	Distribu	ition in	Soils				Pro	blem	Sessio	n									
22 Activit	Textboo Material					Zei - U 200 - K 20 <sup>-</sup> -M Be -D/	-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", Number Duration (hour) Total Work													
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25			CON	TRIE	BUTIC	N O						S TO I	PROC	GRAM	ME					
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ÖK2	5	4	3	5	3	0	0	0	0	0	0	0	0	0	0	0				
ÖK3	5	4	0	3	5	3	0	0	0	0	0	0	0	0	0	0				
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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																
LO: Learning Objectives PQ: Program Qualifications																
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