

GEOLOGY FOR CIVIL ENGINEERING

1	Course Title:	GEOLOGY FOR CIVIL ENGINEERING	
2	Course Code:	INS1008	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	2.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Dr. Öğr. Üyesi MEHMET SABRİ DİRİM	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme Bölümü 16059 Görükle Kampüsü, Nilüfer/Bursa Tel: 0-224-2941537 E-posta: sdirim@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	To teach how to use basic principles of the geology on civil Engineering applications.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Having basic knowledge on geology and analyze potential problems.
		2	Having knowledge of the structure and its generation of planet earth.
		3	Know formation and properties of rocks and minerals.
		4	Gain information about engineering properties of rock and earth mass.
		5	To know mineralogical, lithological, engineering geology and tectonic aspect of the of building site selection that to be considered.
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Introduction; Definiton of geology, history of geology, solar system and the planet earth		

2	General specifications of the planet earth	
3	Minerals	
4	Exemiation of minerals at the laboratory	
5	Rocks; Magmatic, sediments and metamorphic rocks	
6	Exemiation of rocks at the laboratory	
7	Engeneering properties of rocks	
8	Geological periods and maps	
9	Mid-term exam, assestment of course	
10	Epirogenik movements	
11	Orogenic movements	
12	Earthquakes	
13	Skelp tectonics	
14	Hydrogeology	

22	Textbooks, References and/or Other Materials:	<p>Dirim, M. S., "Jeoloji Ders Notları". U. Ü. Zir. Fak. Toprak Bölümü, Bursa, 1994.</p> <p>Ketin, İ., "Genel Jeoloji. Yerbilimlerine Giriş", Cilt 1. İ.T.Ü. Matbaası, İstanbul, 1993.</p> <p>Gribble, C.D., Geology for Civil Engineers, Chapman & Hall, 1992.</p>
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Activities			Number	Duration (hour)	Total Work Load (hour)
Theoretical			14	2.00	28.00
Practicals/Labs			0	0.00	0.00
Self study and preparation			7	2.00	14.00
Homeworks			0	0.00	0.00
Mid-term Exam	1	3	0.00	0.00	0.00
Field Studies			0	0.00	0.00
Mid-term exams	1	1	10.00	10.00	10.00
Others			0	0.00	0.00
Final Exams	3	1	10.00	10.00	10.00
Total Work Load					62.00
Success Grade/ 30 hr					2.07
ECTS Credit of the Course					2.00
Total			100.00		
Measurement and Evaluation Techniques Used in the Course					

24	ECTS / WORK LOAD TABLE
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[illegible]

ÖK3	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	5	0	3	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK5	5	5	0	4	0	4	0	0	0	0	3	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																	
Contrib ution Level:	1 very low			2 low			3 Medium			4 High			5 Very High				