

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:	Bursa 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:	It provides important information about natural disasters with the engineering properties of rock and ground masses in building site scattering.	
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	Rocks; Magmatic, Sedimentary (Sedimentary) and Metamorphic rocks (Continued)			
7	Exemiation of rocks at the laboratory			
8	Engeneering properties of rocks			
9	Geological periods and maps			
10	Epirogenik movements			
11	Orogenic movements			
12	Earthquakes			
13	Skelp tectonics			
14	Hydrogeology			
22	Textbooks, References and/or Other Materials:	Dirim, M. S., “Jeoloji Ders Notları”. U. Ü. Zir. Fak. Toprak Bölümü, Bursa, 1994. Ketin, İ., “Genel Jeoloji. Yerbilimlerine Giriş”,Cilt 1. İ.T.Ü. Matbaası, İstanbul, 1993. Gribble C.D. Geology for Civil Engineers, Chapman&Hall		
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study and preperation		7	2.00	14.00
Homeworks		0	0.00	0.00
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT	
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams		0	8.00	8.00
Quiz		0	0.00	0.00
Others		0	0.00	0.00
Final Exams		1	10.00	10.00
Final Exam		1	60.00	60.00
Total Work Load				60.00
Total work load/ 30 hr				2.00
Contribution of Term (Year) Learning Activities to ECTS Credit of the Course		40.00		2.00
Contribution of Final Exam to Success Grade		60.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course		The measurement and evaluation of the course is made by attendance and exams. The success of students is carried out in the form of a multiple-choice test with midterm and final exams.		
24	ECTS / WORK LOAD TABLE			

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0
ÖK2	5	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0
ÖK3	4	4	0	0	0	4	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
ÖK5	5	5	0	4	0	4	0	0	0	0	3	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low			3 Medium			4 High			5 Very High				