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. Ögr. Üyesi AHMET TALHA GEZGİN	
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
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	8.00	8.00
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Total Work Load			60.00
Total work load/ 30 hr			2.00
ECTS Credit of the Course			2.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Quiz	0	0.00
Final Exam	1	60.00
Contribution of Term (Year) Learning Activities to		40.00

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**			