

# 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 AHMET TALHA GEZGİN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Bursa Uludağ Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü 16240 Görükle Kampüsü, Nilüfer/Bursa Tel: 0-224-2755276 E-posta: ahmettalhagezgin@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	To teach the basic principles of geological science to civil engineering students.	
19	Contribution of the Course to Professional Development:	To have knowledge of the basic concepts of geology, which is related to civil engineering in many different aspects, to know the origins of geological materials such as soils and rocks, to recognize the formation mechanisms of earthquakes and the formation processes of groundwater.	
20	Learning Outcomes:		
		1	To know basic information about Geology, Universe and Earth.
		2	To recognize the structure and properties of minerals and rocks.
		3	To be able to make geologic mapping and interpret geologic sections.
		4	To have knowledge about the formation of earthquakes.
		5	To have knowledge about the properties of groundwater and the issues to be considered in its use.
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21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Introduction		

2	The formation of the Universe and the Earth, the internal structure of the Earth	
3	Geological time	
4	Plate tectonics	
5	Minerals	
6	Rock cycle, Igneous rocks	
7	Sedimentary rocks	
8	Metamorphic rocks	
9	Structural properties of rocks	
10	Structural properties of rocks	
11	Mapping	
12	Earthquake geology	
13	Earthquake geology	
14	Hydrogeology	

<b>22</b>	Textbooks, References and/or Other Materials:	Lecture Notes
<b>23</b>	Assesment	

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT		
Midterm Exam	1	40.00		
Quiz	0	0.00		
Activites		Number	Duration (hour)	Total Work Load (hour)
Total Theoretical	2	100.00		
Contribution of Final Exam to Success Grade		14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study and preparation		7	2.00	14.00
Contribution of Final Exam to Success Grade		60.00		
Homeworks		0	0.00	0.00
Total Projects		100.00		
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams		out in the form of a written exam with midterms and final		
Others		0	0.00	0.00
<b>24 ECTS / WORK LOAD TABLE</b>				
Final Exams		1	10.00	10.00
Total Work Load				68.00
Total work load/ 30 hr				2.00
ECTS Credit of the Course				2.00

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ÖK5	5	0	0	0	0	0	0	0	0	0	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							