GENERAL GEOLOGY END

1	Course Title:	GENERAL GEOLOGY END	
2	Course Code:	AYHZ107	
3	Type of Course:	Compulsory	
4	Level of Course:	Short Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	1	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Öğr. Gör. Dr. NURHAN SÜMER	
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları	
16	Contact information of the Course Coordinator:	nsumer@uludag.edu.tr Uludağ Üniversitesi Büyükorhan Meslek Yüksekokulu, Orhan Mah., Dr. İbrahim Öktem Cad., No: 28, 16990 Büyükorhan/Bursa Telefon : +90 (224) 8412439	
17	Website:		
18	Objective of the Course:	Giving information about the basic principles of geosciences and soil science. Being able to use this knowledge to solve problems about natural resources and wild life	
19	Contribution of the Course to Professional Development:	Students who complete this program learn the properties and types of elements and minerals within the scope of general geology. Learns what rock groups are and how to differentiate. Learn the formation processes of various rocks and the factors affecting them. Learns the soil structural properties and soil types.	
20	Learning Outcomes:		
		1	Having basic knowledge on geology and analyze potential problems.
		2	Having knowledge of the structure and generation of planet earth.
		3	Being able to identify landforms and their relations between natural forces.
		4	Rock and minerals allows the properties, their specifications and their roles on soil production.
		5	Gain information about engineering properties of rock and earth mass,
		6	Gain skills and knowledge to produce solutions to the problems related to natural resources
		7	
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		10	
21	Course Content:		

	Course Content:	
Week	Theoretical	Practice
1	Introduction; Definiton, history of geology and general specifications of the planet earth	Genesis of the planet (Powerpoint presentation)
2	Minerals; their physical and chemical properties.	Introduction to cyrstal shapes
3	Rocks; Magmatic, sedimentary and metamorphic rocks	Introduction to minerals part
4	Dissolution effects, soil generation and progress	Introduction to minerals part
5	Factors affect soil generation	Introduction to rock samples
6	Clay minerals	Introduction to rock samples
7	Soil profile and horizon	Field observation
8	Physical properties of soil	Soil sampling
9	Mid-term exam	Introduction to topographic and geologic maps and cross sections
10	Chemical properties of soil	Texture analysis
11	Soil Classification	Introduction to minerals and rocks
12	Geological time sequences and maps, epyrogenical and orogenical movements	Technical trip to mine sites
13	Earthquakes and natural disasters, management and usage of natural resources	Introduction to earthquakes
14	Carstic formations	Technical trip to carstic areas

22	Textbooks, References and/or Other Materials:	Dirim, M. S., “Geology Lecture Notes”. U. Ü. Zir. Fak. Soil Division, Bursa. Ketin, İ., 1993 “General Geology. Introduction to Earth Sciences ”, Volume 1 İ.T.Ü. Printing House, Istanbul. Lutgens, F.K., Frederick, K., Tarbuck, E, J. 2013. General Principles of Geology (translated by C.H.). Nobel Sagittarius. No: 531. Ankara. Özbek H. 1993. Soil Science. Çukurova University, Faculty of Agriculture Textbook No: 34, Adana. Kantarcı, M. D., 2000, Soil Science, Istanbul University Faculty of Forestry Publications, İ.Ü. Publication No: 4261, O.F. Publication No: 462, Istanbul.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	30.00
Quiz	1	10.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	3	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Measurement and evaluation is carried out according to the principles of Bursa Uludağ University Associate and Undergraduate Education Regulation.

24	**ECTS / WORK LOAD TABLE**

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	1.00	14.00
Self study and preperation	14	4.00	56.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	5	5.00	25.00
Midterm exams	1	7.00	7.00
Others	0	0.00	0.00
Final Exams	1	14.00	14.00
Total Work Load			144.00
Total work load/ 30 hr			4.80
ECTS Credit of the Course			5.00

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	3	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK2	3	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK3	3	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK4	3	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK5	3	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK6	3	3	0	0	3	0	3	0	3	4	0	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**