

ROCKS AND MINERALS

1	Course Title:	ROCKS AND MINERALS
2	Course Code:	TOP5957
3	Type of Course:	Optional
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
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 Anabilim Dalı 16059 Görükle Kampüsü, Nilüfer/Bursa Tel: 0-224-2941537 E-posta: sdirim@uludag.edu.tr
17	Website:	
18	Objective of the Course:	Identification of rocks and minerals in laboratory environment and field and give information about their ground characteristics, some engineering specifications and their effects on soil generation.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	To know rocks and minerals.
	2	To know the types and properties of the earth crust.
	3	To know the characteristic effects of rocks on soil formation.
	4	To gain information about usage of the natural resources.
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Composition and generation of planet earth	Slight show presentation
2	Generation and genesis of rocks and minerals.	Slight show presentation

3	Rock types and their specifications	Mineral type determination
4	Rock types and their specifications (2nd part)	Mineral type determination (2nd part)
5	Decomposition of rocks and results of this process	Rock identification
6	Criteria of identification of rocks and minerals in field	Rock identification
7	Criteria of identification of rocks and minerals in laboratory	Repeating courses and Quiz
8	Field trip	Field trip
9	Ground specifications	Field practice
10	Repeating courses and midterm exam	Homework
11	Usage of natural resources	Field practice
12	Industrial raw materials	Slide show presentation
13	Quiz	Field trip
14	Effects of parent material on generation and characteristics of soil	Introduction of rocks and minerals

22	Textbooks, References and/or Other Materials:	Pough, F.H. et al. 1998. A Field Guide to Rocks and Minerals. Houghton Mifflin Co. 5th. Rep. Edition. Schumann, W. Et.al. 1993. Handbook of Rocks, Minerals and Gemstones. Houghton Mifflin Co.
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Activities		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	2.00	28.00
Practicals/Labs		14	2.00	28.00
Self study and preparation		14	2.00	28.00
Homeworks		2	8.00	16.00
Assessment Projects		0	0.00	0.00
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT	
Field Studies		3	8.00	24.00
Midterm Exams	1	20100	12.00	12.00
Others		4	8.00	32.00
Final Exam project	2	10100	12.00	12.00
Total Work Load				180.00
Total work load/ 30 hr	6	100.00		6.00
ECTS Credit of the Course				6.00
Success Grade				
Contribution of Final Exam to Success Grade		60.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course				

24	ECTS / WORK LOAD TABLE
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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	0	3	0	4	4	0	0	5	4	0	5	0	0	0	0	0

ÖK2	0	0	0	0	5	0	0	4	0	0	5	0	0	0	0	0
ÖK3	0	0	0	0	5	4	0	0	0	4	4	0	0	0	0	0
ÖK4	0	0	0	5	4	4	0	3	0	4	5	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			