

GENERAL GEOLOGY AND SOIL INFORMATION

1	Course Title:	GENERAL GEOLOGY AND SOIL INFORMATION	
2	Course Code:	ORMZ105	
3	Type of Course:	Compulsory	
4	Level of Course:	Short Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	2	
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 Bölümü 16059 Görükle Kampüsü, Nilüfer/Bursa Tel: 0-224-2941537 E-posta: sdirim@uludag.edu.tr	
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:		
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
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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., "Jeoloji Ders Notları". U. Ü. Zir. Fak. Toprak Bölümü, Bursa. Ketin, İ., 1993"Genel Jeoloji. Yerbilimlerine Giriş", Cilt 1 İ.T.Ü. Matbaası, İstanbul. Lutgens, F.K., Frederick ,K.,Tarbuck, E, J. 2013.Genel Jeoloji Temel İlkeleri(çeviri C.H.). Nobel Yay. No: 531. Ankara. Özbek H. 1993.Toprak Bilgisi. Çukurova Üniversitesi, Ziraat Fakültesi Ders Kitabı No: 34, Adana. Kantarcı, M. D.,2000, Toprak İlimi, İstanbul Üniversitesi Orman Fakültesi Yayınları, İ.Ü. Yayın No: 4261, O.F. Yayın No:462, İstanbul.
23	Assesment	
TERM LEARNING ACTIVITIES		
	NUMBE R	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		
24	ECTS / WORK LOAD TABLE	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	2.00	28.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	4	3.00	12.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	14.00	14.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0
ÖK3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	3	3	3	3	3	3	0	0	0	0	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			