	ROC	KS AN	ID MINERALS					
1	Course Title:	ROCKS	AND MINERALS					
2	Course Code:	TOP595	7					
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 t	ace					
14	Course Coordinator:	Dr. Ögr.	Üyesi MEHMET SABRİ DİRİM					
15	Course Lecturers:							
16	Contact information of the Course Coordinator:	Uludağ Ü Toprak E 16059 G Tel: 0-22 E-posta:	Jniversitesi, Ziraat Fakültesi, Jilimi ve Bitki Besleme Anabilim Dalı örükle Kampüsü, Nilüfer/Bursa 24-2941537 sdirim@uludag.edu.tr					
17	Website:							
		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.						
18	Objective of the Course:	Identifica field and engineer	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation.					
18 19	Objective of the Course: Contribution of the Course to Professional Development:	Identifica field and engineer	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation.					
18 19 20	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes:	Identifica field and engineer	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation.					
18 19 20	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes:	Identifica field and engineer	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals.					
18 19 20	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes:	Identifica field and engineer 1 2	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals. To know the types and properties of the earth crust.					
18 19 20	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes:	Identifica field and engineer 1 2 3	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals. To know the types and properties of the earth crust. To know the characteristic effects of rocks on soil formation.					
18 19 20	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes:	Identifica field and engineer 1 2 3 4	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals. To know the types and properties of the earth crust. To know the characteristic effects of rocks on soil formation. To gain information about usage of the natural resources.					
18 19 20	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes:	Identifica field and engineer 1 2 3 4 5	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals. To know the types and properties of the earth crust. To know the characteristic effects of rocks on soil formation. To gain information about usage of the natural resources.					
18 19 20	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes:	Identifica field and engineer 1 2 3 4 5 6	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals. To know the types and properties of the earth crust. To know the characteristic effects of rocks on soil formation. To gain information about usage of the natural resources.					
18 19 20	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes:	Identifica field and engineer 1 2 3 4 5 6 7	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals. To know the types and properties of the earth crust. To know the characteristic effects of rocks on soil formation. To gain information about usage of the natural resources.					
18 19 20	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes:	Identifica field and engineer 1 2 3 4 5 6 7 8	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals. To know the types and properties of the earth crust. To know the characteristic effects of rocks on soil formation. To gain information about usage of the natural resources.					
18 19 20	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes:	Identifica field and engineer 1 2 3 4 5 6 7 8 9 9	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals. To know the types and properties of the earth crust. To know the characteristic effects of rocks on soil formation. To gain information about usage of the natural resources.					
18 19 20	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes:	Identifica field and engineer 1 2 3 4 5 6 7 8 9 9 10	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals. To know the types and properties of the earth crust. To know the characteristic effects of rocks on soil formation. To gain information about usage of the natural resources.					
18 19 20 	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes: Course Content:	Identifica field and engineer 1 2 3 4 5 6 7 8 9 10	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals. To know the types and properties of the earth crust. To know the characteristic effects of rocks on soil formation. To gain information about usage of the natural resources.					
18 19 20 	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes: Course Content:	Identifica field and engineer 1 2 3 4 5 6 7 8 9 10 2 0 7 8 9 10	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals. To know the types and properties of the earth crust. To know the characteristic effects of rocks on soil formation. To gain information about usage of the natural resources.					
18 19 20 	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes: Course Content: Theoretical	Identifica field and engineer 1 2 3 4 5 6 7 8 9 10 Cc	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals. To know the types and properties of the earth crust. To know the characteristic effects of rocks on soil formation. To gain information about usage of the natural resources.					
18 19 20 	Objective of the Course: Contribution of the Course to Professional Development: Learning Outcomes: Course Content: Theoretical Composition and generation of plan	Identifica field and engineer 1 2 3 4 5 6 7 8 9 10 7 8 9 10 Cc	tion of rocks and minerals in laboratory environment and give information about their ground characteristics, some ing specifications and their effects on soil generation. To know rocks and minerals. To know the types and properties of the earth crust. To know the characteristic effects of rocks on soil formation. To gain information about usage of the natural resources. urse Content: Practice Slight show presentation Slight show presentation					

3	Roc	k typ	es and	d their	speci	ificatior	าร		Mi	Vineral type determination										
4	Roc	k typ	es and	d their	speci	ificatior	าร (2n	d part)	Mi	Mineral type determination (2nd part)										
5	Deco proc	ompo ess	osition	of roo	cks an	nd resu	lts of t	his	Rc	Rock identification										
6	Crite mine	erias erals	of ide in fiel	ntifica d	tion of	f rocks	and		Ro	Rock identification										
7	Crite mine	erias erals	of ide in lab	ntifica orator	tion of y	f rocks	and		Re	Repeating courses and Quiz										
8	Field	d trip							Fie	Field trip										
9	Grou	und s	specifi	cation	s				Fie	Field practice										
10	Rep	eatin	g cou	rses a	nd mi	dterm	exam		Hc	Homework										
11	Usa	ge of	natur	al res	ource	S			Fie	Field practice										
12	Indu	strial	raw r	nateria	als				Sli	de sho	w pres	sentatio	n							
13	Quiz	2							Fie	eld trip										
14	Effe char	fects of parent material on generation and aracteristics of soil									ion of r	rocks ar	nd mine	rals						
22	2 Textbooks, References and/or Other Materials:								Po an Eo	Pough,F.H.et al. 1998. A Field Guide to Rocks and Minerals. Haughton Mifflin Co. 5th. Rep. Edition.										
									Sc Rc Mi	Schumann, W. Et.al. 1993. Handbook of Rocks,Minerals and Gemstones. Haughton Mifflin Co.										
Activites							1	Number Duration (hou				hour)) Total Work Load (hour)							
Theore	tical								IRd	Rocks and Minerals. Simon a Senaster 5 C				ulde to Ister, 28.00						
Practicals/Labs									14			2.00	2.00			28.00				
Self stu	dy a	nd pr	epera	ition					lox	Oxfferd.			2.00	2.00			28.00			
Homew	Homeworks									2			8.00			16.00				
Project	7330 6	esme	111							0			0.00	0.00			0.00			
Field S	ield Studies									3			8.00	8.00			24.00			
Midtern	idterm Exams 1									20100			12.00	12.00			12.00			
Others	Dthers									4			8.00	8.00			32.00			
Fionant eEv	RionaleEwarksproject 2									10100			12.00	12.00			12.00			
Total W	Total Work Load													180.00						
Total w	Total work load/ 30 hr 6									100.00					6.00					
ECTS Credit of the Course Success Grade															6.00					
Contribution of Final Exam to Success Grade							60	60.00												
Total	Total								10	100.00										
Measurement and Evaluation Techniques Used in the Course																				
24	24 ECTS / WORK LOAD TABLE																			
25				CON	TRIB	BUTIO	N OI	E LEA Q	RN UA	ING LIFIC		COME: NS	S TO I	PROG	GRAM	ME				
	I	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	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																
Contrib ution Level:	rib 1 very low n el:			2 low			3 Medium			4 High			5 Very High			