

Study program		Study cycle		Undergraduate study program (first cycle)			
		Orientation		Education in Geography			
SUBJECT							
Subject name		PETROGRAPHY WITH MINERALOGY					
Subject code	Semester	Subject status			ECTS credits	Contact hours	
FG-111.8-1	II	mandatory			5	125	
Prerequisites							
Assigned professors and assistants		Subject Leader		Dr. sci. Mevlida Operta, full professor			
		Teaching Assistants		MA Ahmed Džaferagić, teaching assistant			
Subject objectives		Introducing students to the characteristics of petrogenic minerals that occur in rocks as the essential, secondary and accessory ingredients. Then introducing students to structural textural, mineralogical and chemical characteristics of the rocks. In addition to these features, which essentially determines the application of rocks in different industries, students will become familiar with their appearance and classification. The aim of this course is to enable students to recognize igneous, sedimentary and metamorphic rocks, and to recognize the major differences between rock types.					
SUBJECT CONTENT							
No.	Teaching units	Contact hours					
		L	P	S	C		
1.	Introduction to mineralogy and petrography	2	2	1	1		
2.	Crystals and aggregates	2	2	1	1		
3.	Physical characteristics of minerals	2	2	1	1		
4.	The genesis or origin of minerals	2	2	1	1		
5.	Classification of minerals, nesilicate minerals	3	3	1	1		
6.	Silicate minerals	3	3	1	1		
7.	Test I	1					
8.	Rocks and division by origin	1	2	2	2		
9.	Igneous rock, appearance in the lithosphere	2	2	2	2		
10.	Classification of igneous rocks	2	2				
11.	Mineral composition, structural and textural characteristics and distribution of igneous rocks	2	2	1	1		
12.	The origin of sedimentary rocks and classification of sedimentary rocks	2	2	1	1		
13.	Mineral composition, structural and textural characteristics and distribution of sedimentary rocks.	2	2	1	1		
14.	Genesis and classification of metamorphic rocks.	2	2	2	2		
15.	Mineral composition, structural and textural characteristics and distribution of metamorphic rocks	2	2				
STUDENT WORKLOAD (HOURS)							
Contact Hours	60	Practical work		Seminars	15	Exam study time	30
Literature – reading	5	Written papers		Other (state)	15	TOTAL	125
TEXTBOOKS AND STUDY MATERIALS				EVALUATION OF KNOWLEDGE AND CRITERIA			
MANDATORY Operta, M. (2014): Petrografija, Udžbenik Prirodno-matematičkog fakulteta Sarajevo. Pamić, J. (1972): Osnovi petrografije, Univerzitet u Sarajevu. ADDITIONAL Tajder, M., Herak, M. (1972): Petrologija i geologija. Školska knjiga Zagreb.					PARAMETERS	Maximum Points	Minimum points
				1.	Attendance	10	6
				2.	Participation on lectures	10	5
				3.	Midterm exam	40	22
				4.	Final exam	40	22
				T o t a l		100	55
Notes:							