

Study program: GEOGRAPHY			
Type and level of studies: Bachelor studies			
Course name: GEOLOGY WITH PETROGRAPHY			
Lecturer: Emin Memović			
Status: Compulsory subject			
ECTS: 7			
Attendance prerequisites:			
Course aims Basic features of the Earth - internal structure, physical properties, and chemical composition, with emphasis on its lithosphere. Geochronology - Earth's age, Historical geology - stratigraphy, division of the Earth's history into eras, periods and epochs, determining the absolute and relative age of rocks.			
Course Outcome			
Course Contents <i>Theoretical part</i> Geology - the basic concepts of geology as a science, task and subject of study, connection with other sciences, Earth as a celestial body - Shape and dimensions of the Earth, main theories in cosmogony, Modern geotectonic theories – Tectonic plates, Classification of the lithosphere plates, causes and direction of their movement, possible relationships between plates (collision, subduction ...) as a cause of endodynamic processes and relief formation, Current examples, Earth endodynamics - Magmatic movements and volcanism, Types and arrangement of volcanoes on Earth as a consequence of geotectonic location, post-volcanic occurrences, Tectonic movements (epeirogenic and orogenic) as a consequence of the relationship of lithosphere plates, Seismic movements - causes, types and elements of earthquakes, measuring the strength of earthquakes and distribution of seismically active areas on Earth, Minerals, Igneous rocks - Mineral composition and compounds of important igneous rocks of the Earth's crust, their distribution and use, Sedimentary rocks - Surface decomposition, transport, sedimentation and diagenesis, as phases in the process of the formation of sedimentary rocks, Composition and structure of sedimentary rocks, distribution and use, Metamorphic rocks - Types of metamorphism, mineral structure and composition of metamorphic rocks, formation, distribution and use, Geological maps. <i>Practical part</i> Properties of petrogenic and ore minerals - macroscopic identification of the most essential petrogenic and ore minerals based on physical properties, their role as components of rocks and ore deposits, Determination of rocks - structure, texture and mineral composition of igneous, sedimentary and metamorphic rocks, classification, distribution and application, Geologic map analysis.			
Literature Јовановић, В., Срећковић-Батоћанин, Д.(2006): <i>Основи геологије</i> , Завод за уџбенике, Београд			
Number of active classes	Theoretical classes: 3	Practical classes: 2	
Teaching methods lectures, exercises, consultations, term test(s), term papers.			
Assessment (maximum 100 points)			
Course assignments	Points	Final exam	points
activity during lectures	10	written exam	50
practical classes		oral exam	
term test(s)	25	
term paper (s)	15		