

Study program: Bachelor academic studies of ECOLOGICAL ECONOMICS (BASEE)			
Type and level of studies: Bachelor academic studies, I level			
Subject name: Geodiversity Protection		Subject code	6E2GEO
Professor: <u>dr Dusan Mijović, assistant professor</u>			
Subject status: Mandatory			
Number of ECTS points: 7			
Condition: none			
Subject goal			
During this course, students will have the opportunity to familiarize themselves with the planet Earth, its characteristics, natural changes and the changes that occur on and in the Earth during the interaction with people. One of the tasks is understanding the concepts of geological time and space, recognizing and understanding of natural phenomena and ways to use the Earth's resources, as well as familiarization with the objects of geological heritage in Serbia and measures for their protection.			
Subject outcome			
This course will enable students to understand the Earth, its formation and geological (endogenous and exogenous) processes that lead to the formation of relief. Students will learn to distinguish between the basic types of rocks and soils, and they will acquire knowledge on the existence of significant geological environmental segments that need to be given special care and not be disturbed and degraded irrationally.			
Subject content			
<i>Theoretical classes</i>			
The term "geodiversity". The emergence of element, the Solar System and the Earth. Basic concepts about the Earth, Earth structure. Plate tectonics, endogenous processes, earthquakes and volcanoes. Historical geology. Basics of mineralogy. Petrology of igneous rocks. Petrology of sedimentary rocks. Petrology of metamorphic rocks. Geomorphology. Colluvial process. Eluvial process. Deluvial process. Proluvial processes. Fluvial processes. Marine processes. Aeolian processes. The emergence of land, soil horizons. Hazardous geological diversity: urbanization, tourism, mining and agriculture. Geo-conservation. Facilities of historical-geological geo-heritage in Serbia. Facilities of petrological geo-heritage in Serbia. Facilities of geomorphological geo-heritage in Serbia. Facilities of neotectonic activity, geophysical phenomena of geo-heritage in Serbia. Hydro-geological and pedological facilities of geo-heritage in Serbia. Protection of geo-heritage in the European Union. Pollution and protection of the geological goods.			
<i>Practical classes</i>			
Introduction to the different types of maps; Mastering the methods of identifying and analyzing rocks; Finding geological phenomena in the urban environment. Observation of minerals and rocks with magnifying glass. Studying objects of geo-heritage in the world and in the country.			
Literature			
1. Борис Вакањац, Весна Ристић Вакањац, Тијана Чопорда Масиловић: Заштита геодиверзитета, скрипта, Факултет за примењену екологију Футура, Београд 2010			
2. М. Бабовић: Геологија и заштита животне средине, Рударско геолошки факултет, 1992, Београд.			
3. П. Николић: Основи геологије, Научна књига, Београд, 1990.			
4. Е. Мемовић, В. Кнежевић и В. Цветковић: Основи петрографије, Универзитет у Приштини, Косовска Митровица, 2003.			
5. Научни скуп о геонаслеђу Србије, Завод за заштиту природе Србије, 2005.			
Number of active teaching classes			Other classes
Lectures: 2(30)	Practical classes: 2(30)	Other class forms :	Study research paper:
Teaching methods			
Interactive lectures, through presentations and practical training in the form of audio-visual exercises: practical work with the maps through their reading, calculation of scale and drawing isohypses; Presentation of the results of analyses of rocks on the example of three-component diagram. Simulation workshops and discussions on a given topic, consultation, two colloquiums and a written exam.			
Knowledge evaluation (maximum number of points is 100)			
Pre-exam obligations	points	Final exam	Points
activities during classes	10	oral exam	max. 60
practical classes	30		
total pre-exam points	max. 40		