

Study program:	Civil Engineering – All departments		
Level of study:	Undergraduate academic studies		
Course title:	Geology and petrology		
Teacher:	Nedo Đurić		
Course Status:	Obligatory		
Credits (ECTS):	5		
Prerequisite:	None		
Course objective(s):	Introduction of students to the basics of geology as a scientific disciplines, whose research results serve as a backing for their activities. Within the program , in addition to basic geological study of the terrain, the students will also be given the minimum required in all fields of research that are related to Applied Geology. The research results are presented on graphic appendices.		
Course outcome(s):	Realization of planned objectives.		
Course Content:			
1 st week	Genesis and structure of the Earth		
2 nd week	Basics of mineralogy		
3 rd week	Basics of petrography (igneous rocks),		
4 th week	Basics of petrography (sedimentary rocks),		
5 th week	Basics of petrography (metamorphic rocks), geological chronology of the Earth's crust		
6 th week	Tectonic movements of the Earth's crust (tangential and radial disorders)		
7 th week	Basics of hydrogeology (hydrogeological characteristics of rock masses)		
8 th week	Basics of hydrogeology (aquifers and sources)		
9 th week	Engineering geological classification of rocks		
10 th week	Basic physical, mechanical and structural features of rocks and rock masses		
11 th week	Basics of engineering geodynamics (decomposition, erosion, rockfalls, crumbling)		
12 th week	Basics of engineering geodynamics (sliding, flow.)		
13 th week	Basics of engineering seismology		
14 th week	Engineering geological studies		
15 th week	Engineering geological maps, profiles and block charts		
Literature:			
	1. N. Đurić: Osnove geologije i inženjerske geologije, Građevinski fakultet Subotica, Tehnički institut Bijeljina, Subotica–Bijeljina, 2009.		
	2. N. Đurić: Osnove geologije i inženjerske geologije, II izdanje. Građevinski fakultet Subotica, Tehnički institut Bijeljina, Subotica–Bijeljina, 2015.		
	3. M. Janjić: Inženjerska geologija sa osnovama geologije. Naučna knjiga, Beograd, 1982.		
	4. N. Đurić: Geološki i tehnički termini. Građevinski fakulteti Subotica–Budimpešta–Beograd, 2001.		
	5. M. Vlahović: Inženjerska geologija sa osnovama geologije. Naučna knjiga, Beograd, 1987.		
Number of hours:			
Lectures: 2	Exercises: 2	Other forms of teaching: 0	Individual research work: 0
			Other classes: 0
Teaching methods:	Lectures, exercises, seminars, consultations		
Evaluation of knowledge (maximum 100 points)			
Pre-exam activities	points	Final exam	points
Activity during the lectures	5	Written exam	10
Activity during the exercises	5	Oral exam	65
Seminar paper, graphic, term paper...	0	-	-
Colloquia	15		