Subject code: FG-111.6-2	**Subject name: GEOLOGICAL MAPPING**		
Ciklus: I	**Year: I**	**Semester: II**	**ECTS credits: 2**
Status: optional		**Contact hours: 50** *Lectures:10* *Exercises: 10* *Seminar: 10*	
Assigned professors and assistants:			
Prerequisits:	/		
Subject objectives:	*Educating students to independently interpret geological mapping as a basic method of studying the structure of the Earth's crust through interpreting the age, composition, tectonics and historical development of geological formations. Teaching students to independently determine the types of geological maps, the content of geological maps and legend, and independently create geological maps, profiles and pillars.*		
Teaching units:	*1.History of geological mapping* *2.Types of geological maps and standards for making geological maps* *3.Geological mapping standards* *4.Stages of geological mapping* *5.Equipment and methods of geological mapping* *6.Planar, linear and structure mapping* *7.Geological mapping of igneous rocks* *8.First test* *9.Geological mapping of sedimentary rocks* *10.Geological mapping of metamorphic rocks* *11.Geological mapping results showing* *12.Creation of geological maps* *13.Creation of geological column* *14.Creation of geological profile* *15.Creating interpretation for the geological map*		
Learning outcomes:	**Knowledge:** *The student will be able to recognize geological mapping as a basic geological method of researching the structure of the lithosphere, interpret the types of geological maps, the content of the basic geological map and the student interpret the content of the legend.* **Skills:** *The student will be able to, independently and in a team,*		

	interpret geological data from geological maps, student will be able to independently interpret data from geological profiles and data from geological pillars. **Competencies:** *The student will be able to, independently and in a team, prepare graphic attachments (geological maps, pillars and profiles). The student will be able to independently present graphic attachments (geological maps, pillars and profiles).*
Teaching methods:	*Lectures are theoretical and practical based on introducing students to geological mapping as a basic method of studying the structure of the Earth's crust, the content of geological maps, legends and ways of creating geological maps, pillars, legends and geological profiles.*
Knowledge testing methods with grading structure [1]:	**Knowledge assessment - criteria:** *Lecture and exercise attendance: maximum 5 - minimum 3 points* *activity in class: maximum 5 - minimum 3 points* *seminar paper: maximum 10 - minimum 5 points* *test: maximum 40 - minimum 22 points* *final exam: maximum 40 - minimum 22 points* *Total 100 points, passing requirement: 55 points minimum.* *Assessment:* *Grade — ECTS grade — Points scale* *10 — (A) excellent — 95 – 100* *9 — (B) very good — 85 – 94* *8 — (C) good — 75 - 84* *7 — (D) satisfactory — 66 – 74* *6 — (E) sufficient — 55 – 64* *5 — (F, FX) insufficient — < 55*
Literature[2]:	*MANDATORY:*

[1] The structure of points and point criteria for each subject is determined by the Council of the organizational unit before the beginning of the academic year in which the subject is taught in accordance with Article 64, paragraph 6 of the Law on Higher Education of Sarajevo Canton

[2] The Senate of the higher education institution as an institution or the council of the organizational unit of the higher education institution as a public institution determines mandatory and recommended textbooks and manuals, as well as other recommended literature on the basis of which exams are prepared by a special decision which must be published on its website before the beginning of the academic year in accordance with Article 56, paragraph 3 of the Law on Higher Education of the Sarajevo Canton

	Hrvatović, H. (2009): Geološko kartiranje, Univerzitet u Tuzli. *Dimitrijević, M. (1978): Geološko kartiranje, Univerzitet u Beogradu.* *Operta, M. (2013): Opća geologija, Udžbenik Prirodno-matematičkog fakulteta u Sarajevu* *Herak, M. (1990): Geologija, Školska knjiga Zagreb.* *RECOMMENDED:* *Plummer, Ch.C., McGeary, D., Carlson, D.H. (2001): Physical Geology, Mgraw-Hill, New York Frederick K. Lutgens Edvard J. Tarbuck (2000): Essentials of Geology seveth edition, Prentice Hall, Upper Saddle River. New Jersey*