



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE
SUBJECT DESCRIPTION

Form SP2

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Subject code: FG-411,20-2	Subject name: GEOLOGICAL STRUCTURE IN REGIONAL AND SPATIAL PLANNING		
Ciklus: I	Year: IV	Semester: VII	ECTS credits: 5
Status: mandatory	Contact hours: 125 <i>Lectures: 25</i> <i>Exercises: 25</i> <i>Seminar: 10</i>		
Assigned professors and assistants:			
Prerequisites:	/		
Subject objectives:	<i>Training students to independently interpret geological materials as the fundamental factors on which regional and spatial planning is based. Training students to independently, and in team, research and interpret geological materials for the needs of regional and spatial planning and to present the material on regional and spatial plans.</i>		
Teaching units:	<ol style="list-style-type: none">1. Geological environmental factors important for regional and spatial planning2. Geological research for the purposes of drafting regional and spatial plans and the spatial plan of the special purpose area3. Geological mapping for the needs of regional and spatial planning4. Studies on geological research for regional and spatial plan5. Properties of the geological environment important for the needs of planning and design6. Engineering geological categories of terrain according to suitability for construction7. Seismic zoning and micro-zoning8. Test9. Determined deposits of mineral raw materials and possibilities of using surfaces after the end of exploitation10. Reclamation and recovery of areas of surface mines and landfills (dumps) of slag, ash, tailings, etc.11. Development and rational use of mineral raw materials, mineral, thermal, thermo-mineral waters etc.12. Protection of a wider source area (drinking water, mineral, thermal and thermo-mineral waters)13. Areas intended for balneological tourism14. Natural and anthropogenic processes on slopes and their protection and remediation15. Finding favorable geological environments for landfills		



<p>Learning outcomes:</p>	<p>Knowledge: <i>The student will be able to explain the factors of the geological environment important for regional and spatial planning, how to explain the properties of the geological environment important for the needs of spatial planning and construction.</i></p> <p>Skills: <i>The student will be able to interpret the geological documentation for the needs of regional and spatial planning, how to independently interpret geological research for the needs of regional and spatial planning.</i></p> <p>Competencies: <i>The student will be able to independently interpret interprets the geological material of a certain area, prepare graphic attachments, solve problems, independently and in a team, and present the results in written or verbal form.</i></p>																											
<p>Teaching methods:</p>	<p><i>Lectures are theoretical and practical based on the production of graphic attachments and interpretation of geological data on geological maps of various scales and purposes.</i></p>																											
<p>Knowledge testing methods with grading structure ¹:</p>	<p>Knowledge assessment - criteria: <i>Lecture and exercise attendance: maximum 5 - minimum 3 points</i> <i>Activity in class: maximum 5 - minimum 3 points</i> <i>Seminar paper: maximum 10 - minimum 5 points</i> <i>Test: maximum 40 - minimum 22 points</i> <i>Final exam: maximum 40 - minimum 22 points</i></p> <p><i>Total 100 points, passing requirement: 55 points minimum.</i></p> <p>Assessment:</p> <table border="1"> <thead> <tr> <th>Grade</th> <th>ECTS grade</th> <th>Points scale</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>(A) excellent</td> <td>95 – 100</td> </tr> <tr> <td>9</td> <td>(B) very good</td> <td>85 – 94</td> </tr> <tr> <td>8</td> <td>(C) good</td> <td>75 - 84</td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(D) satisfactory</td> <td>66 – 74</td> </tr> <tr> <td>6</td> <td>(E) sufficient</td> <td>55 – 64</td> </tr> <tr> <td>5</td> <td>(F, FX) insufficient</td> <td></td> </tr> <tr> <td>< 55</td> <td></td> <td></td> </tr> </tbody> </table>	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		
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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



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Literature²:

MANDATORY:

Operta, M.: Opća geologija, Prirodno-matematički fakultet Sarajevo, 2013.

Hrvatović, H.: Geološko kartiranje, Univerzitet u Tuzli, Tuzla, 2003.

Pehlić, O., Husagić, R., Diharević, J., Brešćić, F., Skić, E. (2008):

Rekultivacija devastiranih terena rudnika uglja na primjerima u FBiH, Tuzla.

RECOMMENDED:

Nakić, Z. (2010): Skripta Geologija okoliša, Zagreb.

Hrvatović, H. (2014): Identifikacija i procjena geoloških hazarda.

<http://www.msb.gov.ba/dokumenti/AB38725.pdf>

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