



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE
SUBJECT DESCRIPTION

Form SP2

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Subject code: <i>GE-301.3-2</i>	Subject name: Relief in Regional and Spatial Planning		
Study cycle: <i>I</i>	Year: <i>III</i>	Semester: <i>V</i>	ECTS credits: <i>5</i>
Status: <i>Obligatory</i>		Contact hours: <i>60</i>	
		<i>Lectures: 30</i> <i>Exercises: 30</i>	
Assigned professors and assistants:			
Prerequisites:	/		
Subject objectives:	<i>Relief present the basis of regional and spatial planning. Goal is to train students for studying and exploring geomorphological materials for the needs of regional and spatial planning, as well to present processed material in regional and spatial plans.</i>		
Teaching units:	<ol style="list-style-type: none"> <i>1. Relief and relief forms, role of dynamics of relief and relief elements in regional and spatial planning</i> <i>2. Analysis of denudation-tectonic and accumulation relief</i> <i>3. Analysis of slope relief, fluvial and fluvial-denudation relief</i> <i>4. Analysis of abrasive relief</i> <i>5. Analysis of karst relief and spatial planning in karst terrains</i> <i>6. Analysis of terrain slope and vertical breakdown in regional and spatial planning;</i> <i>7. Analysis of hypsometric characteristics of terrain in regional and spatial planning</i> <i>8. Partial exam;</i> <i>9. Identification of landslides, formation and use of digital databases for the purpose of regional and spatial planning</i> <i>10. Extraction and mapping of relief forms in regional and spatial planning;</i> <i>11. Evaluating relief in regional and spatial planning, Methodology for assessing geomorphological diversity;</i> <i>12. Geomorphological regionalization;</i> <i>13. Quantitative geomorphological analysis in regional and spatial plans</i> <i>14. Engineering geomorphological mapping in regional and spatial plans;</i> <i>15. Complex valorization of relief - the influence of relief on the spatial organization of human activities</i> 		
Learning outcomes:	Knowledge:		



	<p>- analyzes the morphological and morphometric elements of the relief;</p> <p>- recognizes genetic relief types;</p> <p>- lists factors of degradation of environmental quality.</p> <p>Skills:</p> <p>- independently applies modern methods of geomorphological research,</p> <p>- independently applies modern geoinformatics and cartographic methods of relief analysis.</p> <p>Competencies:</p> <p>- independently evaluates relief for the purpose of regional and spatial planning.</p>																																									
Teaching methods:	Multimedia presentation and discussion (lectures); practical work, educational material analysis and discussion (exercises).																																									
Knowledge testing methods with grading structure¹:	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="text-align: right;">Points</th> </tr> </thead> <tbody> <tr> <td>Attendance</td> <td style="text-align: right;">5</td> </tr> <tr> <td>Participation on lectures</td> <td style="text-align: right;">5</td> </tr> <tr> <td>Partial exam</td> <td style="text-align: right;">40</td> </tr> <tr> <td>Seminar paper</td> <td style="text-align: right;">10</td> </tr> <tr> <td>Final exam</td> <td style="text-align: right;">40</td> </tr> <tr> <td style="border-top: 1px solid black;">TOTAL</td> <td style="text-align: right; border-top: 1px solid black;">100</td> </tr> </tbody> </table> <p>Assessment:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Grade</th> <th style="width: 45%;">ECTS grade</th> <th style="width: 40%;">Points scale</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>(A) excellent</td> <td style="text-align: right;">95 - 100</td> </tr> <tr> <td>9</td> <td>(B) very good</td> <td style="text-align: right;">85 - 94</td> </tr> <tr> <td>8</td> <td>(C) good</td> <td style="text-align: right;">75 - 84</td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(D) satisfactory</td> <td style="text-align: right;">66 - 74</td> </tr> <tr> <td>6</td> <td>(E) sufficient</td> <td style="text-align: right;">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>		Points	Attendance	5	Participation on lectures	5	Partial exam	40	Seminar paper	10	Final exam	40	TOTAL	100	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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Literature²:	<p>Mandatory:</p> <ol style="list-style-type: none"> 1. Marković, M., i dr., 2003: <i>Geomorfologija, Beograd.</i> 2. Đorđević, J., 2004: <i>Tipologija fizičko-geografskih faktora u prostornom planiranju, Beograd.</i> 																																									

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 a 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 act which is required to 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.



3. *Kicošev, S., Dunčić, D., 1998: Geografske osnove prostornog planiranja, Novi Sad.*
4. *Marinović-Uzelac, A., 2001: Prostorno planiranje, Zagreb.*

Recommended:

1. *Faivre, S., Radelj, P., Žiković Grbac, R., 2013: Formiranje i upotreba digitalnih baza podataka o klizištima u svijetu i Hrvatskoj, Hrvatski geografski glasnik 75/1, 43-69.*
2. *Počekal, N., Loborec, J., Meaški, H., 2016: Izrada karte rizika od pojave klizišta primjenom GIS tehnologije – primjer općine Bednja, Hrvatska.*
3. *Bognar, A., 2001: Geomorfološka regionalizacija Hrvatske, Acta Geographica Croatica 34., 7-29.*
4. *Bognar, A., Bognar, H., 2010: Geoekološko vrednovanje reljefa R. Hrvatske, u: Zbornik radova, Geoekologija XXI vijeka, Teorijski i aplikativni zadaci, Crna Gora.*
5. *Bognar, A., 1992: Inženjersko geomorfološko kartiranje, Acta Geographica Croatica 27., 173-185.*
6. *Lozić, S., 1995: Vertikalna raščlanjenost reljefa kopnenog dijela Republike Hrvatske, Acta Geographica Croatica 30., 17-28.*