



<b>Subject code:</b> <i>FG-107.2-1</i>	<b>Subject name: Topography</b>		
<b>Study cycle:</b> <i>I</i>	<b>Year:</b> <i>I</i>	<b>Semester:</b> <i>I</i>	<b>ECTS credits:</b> <i>3</i>
<b>Status:</b> <i>Optional</i>		<b>Contact hours: 75</b> <i>Lectures: 30</i> <i>Exercises: 15</i>	
<b>Assigned professors and assistants:</b>			
<b>Prerequisites:</b>	/		
<b>Subject objectives:</b>	<ul style="list-style-type: none"> <li>• <i>Acquiring knowledge about topographic elements of the terrain and the content of topographic maps</i></li> <li>• <i>Developing the skills of interpreting topographic maps and their application</i></li> <li>• <i>Acquiring knowledge about measurements in topography and metrics of topographic maps</i></li> <li>• <i>To get knowledge about topographic coordinate systems</i></li> <li>• <i>To explain orientation, measurements methods, data collection and plan development</i></li> </ul>		
<b>Teaching units:</b>	<ol style="list-style-type: none"> <li><i>1. Topography- definition, study object and learning objectives</i></li> <li><i>2. Topographic elements; Relief and its characteristics</i></li> <li><i>3. Topographic objects and orientation</i></li> <li><i>4. Content of topographic maps</i></li> <li><i>5. Map scale and cartographic projection</i></li> <li><i>6. Geodetic markers and coordinate system at map</i></li> <li><i>7. First test</i></li> <li><i>8. Mapping and understanding relief on the map</i></li> <li><i>9. Cartographic signatures; Reading topographic objects at map</i></li> <li><i>10. Geographic names of objects- toponomy</i></li> <li><i>11. Topographic map measurement: azimuth, slope; length, square area</i></li> <li><i>12. Map metrics; Topographic profiles</i></li> <li><i>13. Field measurements, collecting data and mapping</i></li> <li><i>14. Aerophotographic and satellite images - interpretation</i></li> <li><i>15. Second test</i></li> </ol>		
<b>Learning outcomes:</b>	<b>Knowledge:</b> <ul style="list-style-type: none"> <li>• <i>Knowledge of topographic elements of the terrain and the content of topographic maps</i></li> <li>• <i>Interpretation of relief, coordinate system and map, and</i></li> </ul>		



	<p><i>satellite terrain views ;</i></p> <ul style="list-style-type: none"> <li>• <i>Measurements, orientation, cartometry as fundamental geographical knowledge</i></li> </ul> <p><b>Skills:</b></p> <ul style="list-style-type: none"> <li>• <i>Interpretation of terrain topography according to topographic map;</i></li> <li>• <i>Measurements and calculations by map;</i></li> <li>• <i>Field measurements, orientation and basics of mapping</i></li> <li>• <i>Coordinate calculation and understanding absolute locations</i></li> <li>• <i>Practical use of topographic map</i></li> </ul> <p><b>Competencies:</b></p> <ul style="list-style-type: none"> <li>• <i>Identification of relief parameters and shapes and assessment of terrain tactics</i></li> <li>• <i>Application of topographic-cartometric methods (orientation, measurements, calculations, interpreters) in understanding the topographic characteristics of a place.</i></li> <li>• <i>Practical use and exploitation of cartographic-topographic data, especially in geographically oriented applied research (spatial planning, tourism and travel, etc.)</i></li> <li>• <i>Easier navigation and better understanding of space and its topographic predispositions, which is the foundation of valorization for different purposes.</i></li> </ul>																																	
<b>Teaching methods:</b>	<p><i>Interactive method, Dialogue method, Oral presentation method, Practical work, Text method, Audio-visual method, Demonstration method, Written and graphic method, Individual work, Group work, Work in pair</i></p>																																	
<b>Knowledge testing methods with grading structure<sup>1</sup>:</b>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th style="text-align: right;"><i>Points</i></th> </tr> </thead> <tbody> <tr> <td><i>Attendance</i></td> <td></td> <td style="text-align: right;"><i>5</i></td> </tr> <tr> <td><i>Participation on lectures</i></td> <td></td> <td style="text-align: right;"><i>5</i></td> </tr> <tr> <td><i>Test 1,2</i></td> <td></td> <td style="text-align: right;"><i>40, 22; 80, 44</i></td> </tr> <tr> <td><i>Written paper</i></td> <td></td> <td style="text-align: right;"><i>10</i></td> </tr> <tr> <td><i>TOTAL</i></td> <td></td> <td style="text-align: right;"><i>100, 55</i></td> </tr> </tbody> </table> <p><b>Assessment:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>Grade</i></th> <th style="text-align: left;"><i>ECTS grade</i></th> <th style="text-align: left;"><i>Points scale</i></th> </tr> </thead> <tbody> <tr> <td><i>10</i></td> <td><i>(A) excellent</i></td> <td><i>95 - 100</i></td> </tr> <tr> <td><i>9</i></td> <td><i>(B) very good</i></td> <td><i>85 - 94</i></td> </tr> <tr> <td><i>8</i></td> <td><i>(C) good</i></td> <td><i>75 - 84</i></td> </tr> <tr> <td><i>7</i></td> <td><i>(D) satisfactory</i></td> <td><i>66 - 74</i></td> </tr> </tbody> </table>			<i>Points</i>	<i>Attendance</i>		<i>5</i>	<i>Participation on lectures</i>		<i>5</i>	<i>Test 1,2</i>		<i>40, 22; 80, 44</i>	<i>Written paper</i>		<i>10</i>	<i>TOTAL</i>		<i>100, 55</i>	<i>Grade</i>	<i>ECTS grade</i>	<i>Points scale</i>	<i>10</i>	<i>(A) excellent</i>	<i>95 - 100</i>	<i>9</i>	<i>(B) very good</i>	<i>85 - 94</i>	<i>8</i>	<i>(C) good</i>	<i>75 - 84</i>	<i>7</i>	<i>(D) satisfactory</i>	<i>66 - 74</i>
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<sup>1</sup> 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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DEPARTMENT OF GEOGRAPHY  
GEOGRAPHY IN EDUCATION

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	6 (E) sufficient 55 - 64 5 (F, FX) insufficient 55
<b>Literature<sup>2</sup>:</b>	<ol style="list-style-type: none"><li>1. Izmirlić, A. (1999): <i>Vojna topografija. Federalno ministarstvo odbrane, Sarajevo</i></li><li>2. Pavišić, N. (1976): <i>"Osnovi kartografije". Obod, Cetinje</i></li><li>3. <i>Topographic Map Symbols (2016). USGG, Department of the Interior, Geological Survey, USA</i></li><li>4. <i>Topographic Maps and Contours (2016). Academic Resource Centre, The ARC, USA</i></li><li>5. <i>Zbirka kartografskih znakova mjerila 1:500 do 1:25.000 (2011), Državna geodetska uprava, Zagreb</i></li></ol>

<sup>2</sup> 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.