Subject code: *FG-107.5-2*	**Subject name: Applicative Cartography**		
Study cycle: *I*	**Year:** *I*	**Semester:** *II*	**ECTS credits:** *5*
Status: *Mandatory*		**Contact hours: 60** *Lectures: 30* *Exercises: 30*	

Assigned professors and assistants:	
Prerequisites:	/
Subject objectives:	*Training students to independently collect materials, use spatial data infrastructure, design their own databases* *Adopting QGIS in exercises* *Adoption of methods of cartographic expression.* *Creating thematic cards* *Analysis of thematic maps*
Teaching units:	1. *Geographical map, definition, BOLTSS* 2. *Geographical content on topographic maps: relief.* 3. *Water, vegetation and roads on maps.* 4. *Cartographic signatures.* 5. *Means and methods of cartographic expression* 6. *Methods: colors, zoning, points, signs, charts, card diagrams* 7. *Toponyms and cartographic transcription.* 8. *Cartographic generalization* 9. *Cartographic visualization* 10. *Atlases* 11. *Cartridges* 12. *Digital cartography.* 13. *Map-related displays.* 14. *History of cartography* 15. *GIS and thematic mapping*
Learning outcomes:	**Knowledge:** • *student applies his knowledge for creation of geographical map, content design, methods of presentation, interpretation of maps in regional and spatial planning, application of contemporary cartographic displays and IT programs for creating them.*

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- *student identifies databases and uses them for data collection*

Skills:

- *student independently creates thematic maps of Bosnia and Herzegovina and the World*
- *student evaluates the compatibility of individual databases with application of GIS*

Competencies:

- *student independently creates thematic maps, collects data and forms tables for GIS*
- *student valorizes thematic maps through application in others subjects*

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<tr><td>Teaching methods:</td><td>Multimedia database exploration, Adoption of QGIS on exercises, Using platforms for creating maps.</td></tr>
<tr><td>Knowledge testing methods with grading structure[1]:</td><td>

		Points
Attendance	*5*	*3*
Participation on lectures	*5*	*3*
Tests	*40*	*22*
Seminar paper	*10*	*5*
Final exam	*40*	*22*
TOTAL	*100*	*55*

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*

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<tr><td>Literature[2]:</td><td>

Mandatory:

- *Musa, S. Šakić,D. (2015) : Primijenjena kartografija, Sveučilište u Mostaru, Mostar*
- *Kraak, M.J., Ormeling, F. 2003: Cartography:*

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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

[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.

	Visualization of Geospatial Data, Pearsons Education Limited, Edinburgh. **Recommended:** • *Robinson, A. H., Morrison, J. L., Muehrcke, P. C., Kimerling, A. J., Guptill, S. C. 1995.: Elements of Cartography, John Wiley&Sons, New York.* • *Peterca, M. I dr.1974.:Kartografija, VGI, Beograd Lovrić, P. 1988. : Opća kartografija, SN Liber, Zagreb.* • *Frančula, N. 2002.: Digitalna kartografija, 3. prošireno izdanje, Geodetski fakultet, Zagreb.* • *Frangeš, S. 2004.: Opća kartografija, Geodetski fakultet, Zagreb* • *Slocum, T.A. 1999.: Thematic Cartography and visualization, Prentice Hall, New Jersey*