

# UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE SUBJECT DESCRIPTION

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Subject code:	Subject name: Practicum in GIS				
GIS-301.5-3	,			ECTC line 2	
Study cycle: I	Year: III		Semester: V Contact hours: 45	ECTS credits: 3	
<b>Status:</b> Optional			Lectures: 30		
			Exercises: 15		
Assigned professor			d associates who are s h the subject belongs	elected for the teaching	
Prerequisits:	/				
Subject objectives:	T -	Explorin	and structure of a c	ledge of students about the digital atlas of Bosnia and	
Teaching units:	<ol> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	important organizate important spatial plus Digital Arand develorganizate Herzegov Bosnia ara The met structure Bosnia ara students. The met structure Bosnia ara students. The met structure Bosnia ara students. The met structure bistorical individual The met structure historical individual true historical individual true met structure historical individual true historica	tion and the types of ace of digital thematic anning. Itlas of Bosnia and He elopment. The meth tion and structure of a vina. The importance and Herzegovina in region and Herzegovina in region and Herzegovina. Pray on entering and editing the of climatic and hy and Herzegovina. Pray on entering and editing the of the pedology-bio and Herzegovina. Pray on entering and editing the of the pedology-bio and Herzegovina. Pray on entering and editing the of the pedology-bio and Herzegovina. Pray on entering and editing the of the geodatabase of t	digital thematic sets. The catasets for regional and erzegovina - concept, origin odological concept of the adigital atlas of Bosnia and and use of digital atlas of onal and spatial planning.  of the organization and morphology geodatabase of actical individual work of ag data.  of the organization and vdrological geodatabase of actical individual work of ag data.  of the organization and geographic geodatabase of actical individual work of	





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8.	Herzegovina. Practical individual work of students on entering and editing data.  The methodological concept of the organization and structure of the geodatabase of populated areas of Bosnia
	and Herzegovina. Practical individual work of students on
	entering and editing data.
9.	The methodological concept of the organization and
	structure traffic-geographical geodatabase of Bosnia and

- Herzegovina. Practical individual work of students on entering and editing data.10. The methodological concept of the organization and structure of economy-geographical geodatabase of Bosnia
- and Herzegovina. Practical individual work of students on entering and editing data.11. The methodological concept of the organization and structure of the geo- ecological geodatabase of Bosnia and
- structure of the geo- ecological geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data.
- 12. The methodological concept of the organization and structure of turismology geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data.
- 13. The methodological concept of the organization and structure of regional-geographical geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data.
- 14. The methodological concept of the organization and structure of historical-geographical geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data.
- 15. Synthesis of practical individual student work on entering and editing data

### **Knowledge:**

- The student states and explains the possibilities of using different analog and digital data sources to improve the content of the digital atlas of Bosnia and Herzegovina;
- The student classifies and actively participates in the allocation and redesigning various analog and digital data;

### **Learning outcomes:**

#### Skills:

- The student enters, classifies, organizes, edits and graphically presents the methodological concept of organization and structure of the geological-geomorphological geobase of Bosnia and Herzegovina;

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- The student enters, classifies, organizes, edits and graphically presents the methodological concept of organization and structure of the climatic-hydrological geobase of Bosnia and Herzegovina. Student enters, sorts, organizes,
- edits and graphically presents the methodological concept of organization and structure of the pedological-biogeographic geobase of Bosnia and Herzegovina;
- The student enters, classifies, organizes, edits and graphically presents the methodological concept of organization and structure of the geobase of data on the natural and cultural-historical heritage of Bosnia and Herzegovina.
- The student enters, classifies, organizes, edits and graphically presents the methodological concept of organization and structure of the demographic geographic database of Bosnia and Herzegovina. The student enters, sorts, organizes, edits and graphically presents the methodological concept of organization and structure of the geobase of settlements in Bosnia and Herzegovina;
- The student enters, classifies, organizes, edits and graphically presents the methodological concept of organization and structure of the traffic geographic database of Bosnia and Herzegovina;
- The student enters, classifies, organizes, edits and graphically presents the methodological concept of organization and structure of the economic-geographical geobase of Bosnia and Herzegovina;
- The student enters, classifies, organizes, edits and graphically presents the methodological concept of organization and structure of the geo-ecological geo-database of Bosnia and Herzegovina.
- The student enters, sorts, organizes, edits and graphically presents the methodological concept of organization and structure of the tourism geological database of Bosnia and Herzegovina;
- The student enters, sorts, organizes, edits and graphically presents the methodological concept of organization and structure of the regional geographical and historical-geographical geobase of Bosnia and Herzegovina.

### **Competencies:**

- The student evaluates, evaluates, combines and ranks sets digital databases from the digital atlas of Bosnia and





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	Herzegovina;				
	- The student presents the possibilities of using thematic sets				
	of digital databases from the digital atlas of Bosnia and				
	_	_	ment of regional and spatial plans		
		ent levels of plannin			
	- Multimedia presentation and conversation (lecture);				
Teaching methods:	- Research independent work of students;				
reaching methous.	- Joint analysis and practical work of students in relevant				
	application software (exercises).				
	Points				
	Attendance 5				
	Participation on lectures 10		10		
	Tests		85		
	Seminar	paper			
	Final exam				
Knowledge testing	TOTAL		100		
methods with grading		_			
structure <sup>1</sup> :	Assessment:				
Su detaile :	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		
	Mandate	ory:			
	– Đug S., Drešković, N., Odžak, S. (2015): Daljinska				
	istraživanja - principi i primjena u prirodnim naukama.				
	Univerzitetskiudžbenik. Univerzitet u Sarajevu.				
	Sarajevo				
Literature <sup>2</sup> :	– Heywod, I., Cornelius, S. And Carver, S.(1998): An				
	Introducion to Geographical Informatio Systems.				
	PearsonEducation Inc. New York.				
	<ul> <li>Walford, N. (1995): Geographical Data Analysis.</li> </ul>				
	School ofGeography, Kingston University UK,.				
	Recomn	nended:			

<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

<sup>&</sup>lt;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.



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_	Malone, L., Palmer A.M., i Voigt, C.L. (2003): Mapping
	Our World, GIS Lessons for Educators. ESRI Press,
	Redlands,California, USA.

Getting to Know Arc View GIS. Geoinformation.
 International. Environmental System Research
 Institute.New York, 1997.