

Subject code: GIS-301.5-2	Subject name: Practicum in GIS			
Study cycle: I	Year: III		Semester: V	ECTS credits: 3
Status: Optional			Contact hours: 4 Lectures: 30 Exercises: 15	15
Assigned professor and assistants:			nd associates who ar e subject belongs	e selected for the teaching area
Prerequisits:	1			
Subject objectives:	Th - - -	Explorir content Herzego Explorir editing from a d Explorir possibili sources and Her Explorir possibili digital d	and structure of ovina; ng and acquiring existing and creating digital atlas of Bosnia ng and acquiring kn ities of using diffe to improve the con rzegovina; ng and acquiring kn ities of using thema atlas of Bosnia and p	nowledge of students about the a digital atlas of Bosnia and knowledge of students about g new thematic spatial data sets
Teaching units:	1. 2. 3. 4.	importa and the digital ti Digital A developr organiza Herzego Bosnia a The me structur Bosnia students The me structur	nce. The methodolog types of digital the hematic datasets for Atlas of Bosnia and H ment. The meth ation and structure wina. The importan and Herzegovina in r ethodological conce and Herzegovina. on entering and edi ethodological conce e of climatic and hyd	ts - concept, definition and pical concept of the organization ematic sets. The importance of regional and spatial planning. Verzegovina - concept, origin and odological concept of the of a digital atlas of Bosnia and nee and use of digital atlas of egional and spatial planning. ept of the organization and geomorphology geodatabase of Practical individual work of ting data. ept of the organization and rological geodatabase of Bosnia individual work of students on



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	entering and editing data. 5. The methodological concept of the organization and structure of the pedology-biogeographic geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data. 6. The methodological concept of the organization and
	structure of the geodatabase of natural, cultural and historical heritage of Bosnia and Herzegovina. Practical individual work of students on entering and editing data.
	7. The methodological concept of the organization and structure of the demographic geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data.
	8. 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 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
Learning outcomes:	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; 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; - 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 culturalhistorical 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 presents the methodological graphically 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



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	 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 Herzegovina; The student presents the possibilities of using thematic sets of digital databases from the digital atlas of Bosnia and Herzegovina in the development of regional and spatial plans of different levels of planning. 			
Teaching methods:	 Multimedia presentation and conversation (lecture); Research independent work of students; Joint analysis and practical work of students in relevant application software (exercises). 			
Knowledge testing methods with grading structure ¹ :	application software (exercises). Points Attendance 5 Participation on lectures 10 Tests 85 Seminar paper Final exam TOTAL 100 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 - 64			
Literature ² :	Mandatory:			

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



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 Đug S., Drešković, N., Odžak, S. (2015): Daljinska istraživanja - principi i primjena u prirodnim naukama. Univerzitetski udžbenik. Univerzitet u Sarajevu. Sarajevo Heywod, I., Cornelius, S. And Carver, S.(1998): An Introducion to Geographical Informatio Systems. Pearson Education Inc. New York. Walford, N. (1995): Geographical Data Analysis. School of Geography, Kingston University UK,.
 Recommended: 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.

the Sarajevo Canton.