

Subject code: TZŽS/109	Subject name: Remote Sensing						
Study cycle: III	Year: I	Semester: I	ECTS credits: 5				
<b>Status:</b> Optional		<b>Contact hours: 55</b> Lectures: 45 Research project/se	<b>Contact hours: 55</b> Lectures: 45 Research project/seminar: 10				
Assigned profess and assistants:	ors Teachers a which the	and associates who are s subject belongs	l associates who are selected for the teaching area to bject belongs				
Prerequisits:	For succes previously	sful mastering, the teac passed GIS module.	ıg, the teaching material requires a nodule.				
Subject objective	s: wo com value	<ul> <li>introducing students to the principles and methods of remote sensing and its application in research in the field of environmental protection and tourism potential.</li> <li>introducing students to application software and concrete work with optional software tools for component and complex research in the field of environmental protection</li> <li>introducing students to application software and concrete work with optional software tools for component and complex research in the field of environmental protection</li> <li>introducing students to application software and concrete work with optional software tools in research and valorization of tourism potentials.</li> </ul>					
1. Basics tasks a 2. Histor geospa 3. Techn radiat 4. Satelli classif 5. Instru atmos 6. Classif of give 7. Spectr 8. Identi resear 9. Data in 10. Remot 11. Uncon image		sics of remote sensing - of ks and objectives of the torical-geographical cor- spatial research chnological structure of a iation sources. ellite systems for Earth ssification. truments for remote ser nosphere on diffraction a ssification of satellite an given criteria. ectral resolution of satell ntification and interpret earch. a integration for remote note detection applicati controlled and controlle agery.	s of remote sensing - concept, definition, subject, and objectives of the study. rical-geographical continuity and the current state of batial research nological structure of remote sensing in the field of tion sources. ite systems for Earth observation and their fication. uments for remote sensing and the influence of the sphere on diffraction and interference. fication of satellite and aerial imagery by application en criteria. ral resolution of satellite and aerial images. ification and interpretation of data for remote rch. integration for remote sensing. ote detection application software. ntrolled and controlled classification of satellite images				

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	<ul> <li>classification.</li> <li>13. Software models for structural improvement of satellite and aerial image content.</li> <li>14. Geoecological spatial analyzes using certain software modules according to the types of natural resources.</li> <li>15. Analysis and valorization of tourist potentials by application certain software modules according to types</li> </ul>							
	and their spatial coverage.							
Learning outcomes:	_	•	0					
Teaching methods:	Multimedia presentation and discussion (lectures); practical work, educational material analysis and discussion (Research project).							
Knowledge testing methods with grading structure <sup>1</sup> :	Knowle 1. Oral 2. Pract 3. Indep points Total 10 Assessm Grade 10 9 8 7 6 5	dge assessment / cr discourse: max 25 - ical work: max 25 - bendent research wo 00 points, condition <b>nent:</b> (A) excellent (B) very good (C) good (D) satisfactory (E) sufficient (F, FX) insufficient	riterion: min 14 points min 14 points ork: max 50 - min 27 for passing: 55 points <i>Points scale</i> 95 - 100 85 - 94 75 - 84 66 - 74 55 - 64 55					
Literature <sup>2</sup> :	<ul> <li>Mandatory:</li> <li>1. Đug, S., Drešković, N., Odžak, S. (2015): Daljinska istraživanja – principi i primjena u prirodnim naukama. Univerzitetski udžbenik. Izdavač: Univerzitet u Sarajevu, Prirodno-matematički fakultet Sarajevo. ISBN 978-9958-592-62-1, COBISS. BH - ID 22089478.</li> <li>2. Horning, N., Robinson, J.A., Sterling, E.J., Turner, W., &amp; Spector, S. (2010): Remote Sensing for Ecology and Conservation. A Handbook of Techniques. Oxford University Press Inc., New York.</li> </ul>							

 $<sup>^1</sup>$  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

 $<sup>^2</sup>$  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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3.	Verbyla, D	. (2	000.): Sa	atellite	e Remote	Sensing of	Natural
	Resources. Lewis publisher, New York.						
4.	Franklin,	J.,	Miller,	J.A.	(2009):	Mapping	Species
	Distribution. Spatial Inference and Prediction. Cambridge						
	University	Pres	SS.				
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