



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE
SUBJECT DESCRIPTION

Form SP2

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Subject code: GE-44.43-4	Subject name: Sustainable Development in Protected Areas		
Ciklus: I	Year: IV	Semester: VII	ECTS credits: 6
Status: Mandatory		Contact hours: 60 Lectures: 30 Practical courses: 30	
Assigned professors and assistants:	Lecturers and assistants selected for the field to which the course belongs		
Prerequisites:	/		
Subject objectives:	The goal is to understand the essence of sustainable development in protected natural areas, including the identification and categorization of these areas. Additionally, it involves understanding the possibilities of sustainable development within protected natural areas in line with their natural-geographical and socio-geographical characteristics. The objective is also to explore the application of the most appropriate management models for protected areas, taking into account their carrying capacities and the factors influencing the area.		
Teaching units:	1. Introductory lectures 2. Designation and management of protected natural areas 3. Different approaches to the designation, definition, and categorization of protected natural areas 4. Sustainable development - concept, evolution, meaning, and indicators of sustainable development 5. Components of sustainable development - ecological, social, and economic 6. Sustainable development goals 7. Partial exam 8. Methodology for studying the natural-geographical and socio-geographical elements of protected natural areas 9. Spatial carrying capacity of protected natural areas 10. Factors influencing the sustainability of protected natural areas 11. Application of geoinformation technologies in the analysis of impact factors and planning sustainable development of protected natural areas 12. Multicriteria analysis within protected natural areas -		



	planning for protection and sustainable development 13. Functional and physiognomic transformation of protected natural areas 14. Management models for protected natural areas and their effectiveness 15. Protected natural areas in Bosnia and Herzegovina - sustainable development models																		
Learning outcomes:	Knowledge: • Understand the concept and concept of sustainable development, indicators, components, and goals of sustainable development. • Analyze natural-geographical and socio-geographical elements and impact factors of sustainable development of protected natural areas. • Master contemporary research methods for protected natural areas, zoning, and sustainable development models. Skills: • Independently apply research methods for protected natural areas. • Assess the suitability of zoning and sustainable development models for protected natural areas, as well as the functional and physiognomic transformation of the area. Competencies: • Independently assess the carrying capacity and stress of protected natural areas in accordance with the concept of sustainable development. • By applying multicriteria analysis, the student values the characteristics of natural environment elements and factors and, based on this, proposes measures to achieve sustainable development.																		
Teaching methods:	Multimedia presentation and conversation (lecture); research independent work of students and joint analysis (practical courses).																		
Knowledge testing methods with grading structure ¹:	<table><tr><td>Criterion</td><td>Points</td><td>Requirement</td></tr><tr><td>1. Attendance</td><td>5</td><td>3</td></tr><tr><td>2. Participation on lectures</td><td>5</td><td>3</td></tr><tr><td>3. Midterm exam</td><td>40</td><td>22</td></tr><tr><td>4. Seminar paper</td><td>10</td><td>5</td></tr><tr><td>5. Student project</td><td></td><td></td></tr></table>	Criterion	Points	Requirement	1. Attendance	5	3	2. Participation on lectures	5	3	3. Midterm exam	40	22	4. Seminar paper	10	5	5. Student project		
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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



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	<table><tr><td>6.</td><td>Laboratory report</td><td></td><td></td></tr><tr><td>7.</td><td>Colloquium</td><td></td><td></td></tr><tr><td>8.</td><td>Final exam</td><td>40</td><td>22</td></tr><tr><td></td><td>Total</td><td>100</td><td>55</td></tr></table> Gradeing: <table><tr><td>Grade</td><td>E CTS grade</td><td>Points</td></tr><tr><td>10</td><td>(A)</td><td>95 - 100</td></tr><tr><td>9</td><td>(B)</td><td>85 - 94</td></tr><tr><td>8</td><td>(C)</td><td>75 - 84</td></tr><tr><td>7</td><td>(D)</td><td>65 - 74</td></tr><tr><td>6</td><td>(E) d</td><td>55 - 64</td></tr><tr><td>5</td><td>(F,FX)</td><td><55</td></tr></table>	6.	Laboratory report			7.	Colloquium			8.	Final exam	40	22		Total	100	55	Grade	E CTS grade	Points	10	(A)	95 - 100	9	(B)	85 - 94	8	(C)	75 - 84	7	(D)	65 - 74	6	(E) d	55 - 64	5	(F,FX)	<55
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Literature ² :	MANDATORY: 1. Hrelja, E., 2022: Nacionalni parkovi u Bosni i Hercegovini – problemi održivog razvoja, Univerzitet u Sarajevu – Prirodno-matematički fakultet. 2.Hrelja, E., 2017: Modeli održivog upravljanja zaštićenim prirodnim područjima Bosne i Hercegovine, Doktorska disertacija – izabrana poglavlja, Zagreb. 2.Deguignet, M., Juffe-Bignoli, D., Harrison, J., MacSharry, B., Burgess, N., Kingston, N., 2014: 2014 United Nations List of Protected Areas. UNEP-WCMC: Cambridge, UK. 3.Dudley, N., 2008: Guidelines for Applying Protected Area Management Categories; Gland, Switzerland: IUCN. x+86 pp RECOMMENDED: 4.Bognar, A., Bognar, H., 2010: Geoekološko vrednovanje reljefa R. Hrvatske, Geoekologija XXI vjeka, Teorijski i aplikativni zadaci, Nikšić 2010., 44-63. 5.<u>Buzjak, N., 2008: Geoekološko vrednovanje speleoloških pojava Žumberačke gore, Hrvatski geografski glasnik, 70 (2), 73-89.</u> 6.Hrelja, E., Drešković, N., Mirić, R., Avdić, B., 2016: Geoecological Evaluation of Terrain in National Park Una, Proceedings Book, International Tourism and Hospitality Management Conference Sarajevo, Faculty of Science,																																					

² The Senate of the higher education institution as an institution or the 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 decision which must 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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University of Sarajevo, Sarajevo.
7. Agencija za zaštitu okoliša (AZO), 2015: Kartiranje i
procjena ekosustava i njihovih usluga u Hrvatskoj, Zagreb