



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE
SUBJECT DESCRIPTION

Form SP2

Page 1 of 3

Subject code: <i>GE-318-3</i>	Subject name: Applied geoecology		
Study cycle: <i>I</i>	Year: <i>III</i>	Semester: <i>V</i>	ECTS credits: <i>5</i>
Status: <i>Obligatory</i>		Contact hours: <i>60</i> <i>Lectures: 30</i> <i>Exercises: 30</i>	
Assigned professors and assistants:			
Prerequisites:	/		
Subject objectives:	<i>Training students for independent interpretation geosystem services, ways of using space, physical-geographical and social-geographical components, as well as load-carrying capacity and factors of convenience and degradation of space.</i>		
Teaching units:	<ol style="list-style-type: none"><i>1. Introductory lectures, subject and objectives;</i><i>2. Recent methods of geoecological research;</i><i>3. Types of use of space and free units;</i><i>4. Physical-geographical components in applied geoecological research;</i><i>5. Sociogeographical components in applied geoecological research;</i><i>6. Carrying capacity and loading of the area;</i><i>7. Factors of environmental quality degradation;</i><i>8. Partial exam;</i><i>9. Geoecological mapping, application of recent geoinformation technologies;</i><i>10. Analysis of natural geographic factors of convenience and degradation of the area;</i><i>11. Analysis of socio-geographic factors of convenience and degradation of the area;</i><i>12. Landscape suitability - landscape spatial unit in spatial planning;</i><i>13. Geoecological valorization of the area</i><i>14. Assessment of geodiversity;</i><i>15. Assessment of geosystem services.</i>		
Learning outcomes:	Knowledge: <i>- analyzes the physical-geographical and social-geographical components of the area;</i> <i>- recognizes types of land use and spatial units;</i>		



	<p>- lists the factors of degradation of the quality of the living environment.</p> <p>Skills:</p> <ul style="list-style-type: none"> - independently applies modern methods of geocological research; - independently applies modern geoinformatics and cartographic methods. <p>Competencies:</p> <ul style="list-style-type: none"> - independently assesses geodiversity; - independently assesses ecosystem services; - independently geocologically evaluates the area. 																																											
Teaching methods:	Multimedia presentation and discussion (lectures); practical work, educational material analysis and discussion (exercises).																																											
Knowledge testing methods with grading structure¹:	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="text-align: right;">Points</th> </tr> </thead> <tbody> <tr> <td>Attendance</td> <td style="text-align: right;">5</td> </tr> <tr> <td>Participation on lectures</td> <td style="text-align: right;">5</td> </tr> <tr> <td>Partial exam</td> <td style="text-align: right;">40</td> </tr> <tr> <td>Seminar paper</td> <td style="text-align: right;">10</td> </tr> <tr> <td>Final exam</td> <td style="text-align: right;">40</td> </tr> <tr> <td colspan="2" style="border-top: 1px solid black;">TOTAL</td> </tr> <tr> <td colspan="2" style="text-align: right;">100</td> </tr> </tbody> </table> <p>Assessment:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Grade</th> <th style="width: 45%;">ECTS grade</th> <th style="width: 40%;">Points scale</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>(A) excellent</td> <td style="text-align: right;">95 - 100</td> </tr> <tr> <td>9</td> <td>(B) very good</td> <td style="text-align: right;">85 - 94</td> </tr> <tr> <td>8</td> <td>(C) good</td> <td style="text-align: right;">75 - 84</td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(D) satisfactory</td> <td style="text-align: right;">66 - 74</td> </tr> <tr> <td>6</td> <td>(E) sufficient</td> <td style="text-align: right;">55 - 64</td> </tr> <tr> <td>5</td> <td>(F, FX) insufficient</td> <td></td> </tr> <tr> <td>55</td> <td></td> <td></td> </tr> </tbody> </table>		Points	Attendance	5	Participation on lectures	5	Partial exam	40	Seminar paper	10	Final exam	40	TOTAL		100		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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Literature²:	<p>Mandatory:</p> <ol style="list-style-type: none"> 1. Grupa autora (2014.): <i>Primjenjena ekologija, Ministarstvo poljoprivrede i zaštite životne sredine, Beograd</i> 2. Bognar, A., Lozić, S., Saletto, M., 2002: <i>Geoekologija, interna</i> 																																											

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.



skripta na Geografskom odsjeku Prirodoslovno-matematičko fakulteta Sveučilišta u Zagrebu, Zagreb.

3. *Lješević, M., 1980: Životna sredina: Teorija i metodologija istraživanja, Beograd.*
4. *Hrelja, E., 2017: Modeli održivog upravljanja zaštićenim prirodnim područjima Bosne i Hercegovine, Doktorska disertacija – izabrana poglavlja, Zagreb*
5. *Agencija za zaštitu okoliša (AZO), 2015: Kartiranje i procjena ekosustava i njihovih usluga u Hrvatskoj, Zagreb,*

Recommended:

1. *Tandarić, N., 2014: Fizičkogeografski elementi u primijenjenim geokološkim istraživanjima, magistarski rad, Prirodoslovno-matematički fakultet, Sveučilište u Zagrebu.*
2. *Bognar, A., Bognar, H., 2010: Geoekološko vrednovanje reljefa R. Hrvatske, Geoekologija XXI vjeka, Teorijski i aplikativni zadaci, Nikšić 2010., 44-63.*
3. *Bognar, A., 1996: Tipovi klizišta u Republici Hrvatskoj i Republici Bosni i Hercegovini – geomorfološki i geokološki aspekti, Acta Geographica Croatica 31, 27-39*
4. *Hrelja, E., Drešković, N., Mirić, R., Avdić, B., 2016: Geocological Evaluation of Terrain in National Park Una, Proceedings Book, International Tourism and Hospitality Management Conference Sarajevo, Faculty of Science, University of Sarajevo, Sarajevo.*