



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE  
SUBJECT DESCRIPTION

Form SP2

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<b>Subject code:</b> <i>GE-301.3-2</i>	<b>Subject name: Geocological imbalances and consequences</b>		
<b>Study cycle:</b> <i>I</i>	<b>Year:</b> <i>III</i>	<b>Semester:</b> <i>V</i>	<b>ECTS credits:</b> <i>5</i>
<b>Status:</b> <i>Obligatory</i>		<b>Contact hours:</b> <i>60</i>  <i>Lectures: 30</i> <i>Exercises: 30</i>	
<b>Assigned professors and assistants:</b>			
<b>Prerequisites:</b>	/		
<b>Subject objectives:</b>	<i>Enabling students to understand the causes of geocological imbalances and their consequences at the local and global level. Understanding the essence of natural and anthropogenic impacts on the environment, defining the quality, sources of pollution of the geocomplex and directions of protection through knowledge of the current environmental protection legislation in Bosnia and Herzegovina.</i>		
<b>Teaching units:</b>	<ol style="list-style-type: none"><li><i>1. Geocological imbalances and consequences (introductory lecture);</i></li><li><i>2. Human population growth and the environment, regional differences in the demographic explosion;</i></li><li><i>3. Natural and social geographic conditions of population growth;</i></li><li><i>4. Urbanization and the environment, basic and contemporary trends of urbanization and the environment;</i></li><li><i>5. Rural systems and the environment. The impact of agriculture on the environment;</i></li><li><i>6. The influence of industry on the quality of the environment;</i></li><li><i>7. Partial exam;</i></li><li><i>8. The impact of the use of energy resources on the quality of the environment;</i></li><li><i>9. Atmospheric complex - sources of pollution, temperature inversions;</i></li><li><i>10. Local and global effects of atmospheric pollution and ways of protection;</i></li><li><i>11. Hydrospheric complex - pollution sources, water supplies and consumption;</i></li><li><i>12. Determination of the quality and directions of protection of the hydrospheric geocomplex;</i></li></ol>		



	<p>13. Pedosphere complex - genesis, endangerment and directions of protection</p> <p>14. Biosphere complex - endangerment and ways of protection;</p> <p>15. Legal regulation of environmental protection in Bosnia and Herzegovina.</p>																																									
<b>Learning outcomes:</b>	<p><b>Knowledge:</b></p> <ul style="list-style-type: none"> <li>- defines geoecological imbalances and consequences;</li> <li>- identifies the factors of geoecological imbalances (natural and anthropogenic).</li> </ul> <p><b>Skills:</b></p> <ul style="list-style-type: none"> <li>- assesses the factors endangering the geocomplex of the environment;</li> <li>- independently applies geoecological research methods;</li> <li>- graphically shows changes in environmental elements.</li> </ul> <p><b>Competencies:</b></p> <ul style="list-style-type: none"> <li>- evaluates the quality of the environment;</li> <li>- forecasts the quality of the environment, which is influenced by natural-geographical and social-geographical factors..</li> </ul>																																									
<b>Teaching methods:</b>	<p>Multimedia presentation and discussion (lectures); practical work, educational material analysis and discussion (exercises).</p>																																									
<b>Knowledge testing methods with grading structure<sup>1</sup>:</b>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></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><b>TOTAL</b></td> <td style="text-align: right; border-top: 1px solid black;"><b>100</b></td> </tr> </tbody> </table> <p><b>Assessment:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Grade</th> <th style="text-align: left;">ECTS grade</th> <th style="text-align: left;">Points scale</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>(A) excellent</td> <td>95 - 100</td> </tr> <tr> <td>9</td> <td>(B) very good</td> <td>85 - 94</td> </tr> <tr> <td>8</td> <td>(C) good</td> <td>75 - 84</td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(D) satisfactory</td> <td>66 - 74</td> </tr> <tr> <td>6</td> <td>(E) sufficient</td> <td>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	<b>TOTAL</b>	<b>100</b>	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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<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



<b>Literature<sup>2</sup>:</b>	<p><b>Mandatory:</b></p> <ol style="list-style-type: none"><li>1. Lješević, M., 2005: <i>Životna sredina 3, Beograd.</i></li><li>2. Plut, D., 2004: <i>Geografske metode proučavanja degradacije okolja Univerzitet u Ljubljani.</i></li><li>3. Matas, M., 1989: Simončić, V. Šobot, S.: <i>Zaštita okoline danas za sutra, Školska knj., Zagreb.</i></li><li>4. Spahić, M., 1999: <i>Osnove geoekologije, Harfo -graf Tuzla.</i></li><li>5. Franklin, D., Andrews, J., 2015: <i>Megapromjena, Kako će svijet izgledati 2050, Naklada, Ljevak, Zagreb.</i></li></ol> <p><b>Recommended:</b></p> <ol style="list-style-type: none"><li>1. Agencija za zaštitu okoliša (AZO), 2015: <i>Kartiranje i procjena ekosustava i njihovih usluga u Hrvatskoj, Zagreb</i></li><li>2. Lješević, M., 1980: <i>Životna sredina: Teorija i metodologija istraživanja, Beograd.</i></li></ol>
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<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.