



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE  
SUBJECT DESCRIPTION

Form SP2

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|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                       |                        |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------|
| <b>Subject code:</b><br>GE-402-1           | <b>Subject name: Introduction to Geoecology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                       |                        |
| <b>Study cycle:</b> I                      | <b>Year:</b> IV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Semester:</b> VII                                                  | <b>ECTS credits:</b> 6 |
| <b>Status:</b> mandatory                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Contact hours: 60</b><br><br>Lectures: 30<br>Practical courses: 30 |                        |
| <b>Assigned professors and assistants:</b> | Lecturers and assistants selected for the field to which the course belongs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                       |                        |
| <b>Prerequisites:</b>                      | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                       |                        |
| <b>Subject objectives:</b>                 | Acquiring knowledge about global environmental issues. Detecting the causes and consequences of the imbalances. Recognizing the essence of natural and anthropogenic impacts on the environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                       |                        |
| <b>Teaching units:</b>                     | <ol style="list-style-type: none"><li>1. Geoecology. Object, subject and tasks</li><li>2. Fundamentals of understanding the environment</li><li>3. The essence of the notion of environmental quality</li><li>4. Geography and (geo)ecology</li><li>5. Geoecological aspect of the environment</li><li>6. Basics of planetary systems and systematics of the environment.</li><li>7. Geographical layer.</li><li>8. First test</li><li>9. The axioms and laws of the environment. Geographic regularity.</li><li>10. Methods and methodology of geoecological research</li><li>11. Methods of analysis and synthesis in research of geographical environment</li><li>12. Valorisation of the geographical environment</li><li>13. Indicative and attributive factors of studying the environment</li><li>14. Geographical predictions in the environment</li><li>15. Monitoring of the environment</li></ol> |                                                                       |                        |
| <b>Learning outcomes:</b>                  | <b>Knowledge:</b> <ul style="list-style-type: none"><li>• student critically understands global environmental problems. Learns causes and consequences of imbalances.</li><li>• student acquires knowledge about the essence of geogenic and anthropogenic impact on the environment;</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                       |                        |



|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
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|                                                                      | <p><b>Skills:</b></p> <ul style="list-style-type: none"><li>• student works independently on tasks related to methods and methodology of geoecological research;</li></ul> <p><b>Competencies:</b></p> <ul style="list-style-type: none"><li>• student independently interprets the geoecological aspects of the environment;</li><li>• student independently determines and perceives causally indicative and attributive factors of the environment.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| <b>Teaching methods:</b>                                             | Multimedia presentation and discussion (lectures); practical work, educational material analysis and discussion (practical courses).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| <b>Knowledge testing methods with grading structure<sup>1</sup>:</b> | <table><tr><td></td><td colspan="2"><i>Points</i></td></tr><tr><td>Attendance</td><td>5</td><td>3</td></tr><tr><td>Participation on lectures</td><td>5</td><td>3</td></tr><tr><td>Tests</td><td>40</td><td>22</td></tr><tr><td>Seminar paper</td><td>10</td><td>6</td></tr><tr><td>Final exam</td><td>40</td><td>21</td></tr><tr><td colspan="3"><hr/></td></tr><tr><td>TOTAL</td><td>100</td><td>55</td></tr></table> <p><b>Assessment:</b></p> <table><tr><td><i>Grade</i></td><td><i>ECTS grade</i></td><td><i>Points scale</i></td></tr><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>(D) satisfactory</td><td>66 - 74</td></tr><tr><td>6</td><td>(E) sufficient</td><td>55 - 64</td></tr><tr><td colspan="3"><hr/></td></tr><tr><td>5</td><td>(F, FX) insufficient</td><td>55</td></tr></table> |                     | <i>Points</i> |  | Attendance | 5 | 3 | Participation on lectures | 5 | 3 | Tests | 40 | 22 | Seminar paper | 10 | 6 | Final exam | 40 | 21 | <hr/> |  |  | TOTAL | 100 | 55 | <i>Grade</i> | <i>ECTS grade</i> | <i>Points scale</i> | 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 | <hr/> |  |  | 5 | (F, FX) insufficient | 55 |
|                                                                      | <i>Points</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| Attendance                                                           | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                   |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| Participation on lectures                                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                   |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| Tests                                                                | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 22                  |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| Seminar paper                                                        | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6                   |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| Final exam                                                           | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 21                  |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| <hr/>                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| TOTAL                                                                | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 55                  |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| <i>Grade</i>                                                         | <i>ECTS grade</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <i>Points scale</i> |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| 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             |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| <hr/>                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| 5                                                                    | (F, FX) insufficient                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 55                  |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| <b>Literature<sup>2</sup>:</b>                                       | <p><b>Mandatory:</b></p> <ul style="list-style-type: none"><li>• Spahić, M.: Osnove geoekologije, Harfo-graf Tuzla, 1999.</li></ul> <p><b>Recommended:</b></p> <ul style="list-style-type: none"><li>• Lješević, M.: Životna sredina 3, Univerzitet u Beogradu Beograd, 2005.</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.