



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE  
SUBJECT DESCRIPTION

Form SP2

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|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                       |                        |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------|
| <b>Subject code:</b><br>GE-404-4           | <b>Subject name:</b> Urban geoeecology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                       |                        |
| <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:</b> 60<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 contemporary theoretical knowledge in the field of urban ecology and developing awareness of the problems of modern cities. Connecting theoretical and practical knowledge in the context of spatial and regional planning, with the affirmation of principles and criteria for construction in line with local conditions of the natural environment and morphology.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                       |                        |
| <b>Teaching units:</b>                     | 1. Introducing students to the subject matter and methodology of the course and an overview of the development of ecology<br>2. Global ecology<br>3. Historical overview of urban development and attitudes towards the environment<br>4. Ancient cities and the natural environment<br>5. Concept of sustainable urban development, examples worldwide<br>6. Expansions into natural and social space, conquests and cultivation of free space, human and natural self-regulation.<br>7. Waste management in urban environments<br>8. First test<br>9. The ecological aspect of urban planning and ecological zoning of the city<br>10. Ecological norms and principles of spatial composition of green areas in the city<br>11. Sustainable urban development<br>12. New trends in urban architecture - green roofs and green facades<br>13. Ethical and health role of urban greenery<br>14. Presentation of student's seminar papers<br>15. Presentation of student's seminar papers |                                                                       |                        |



|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|--|------------|---|---|---------------------------|---|---|-------|----|----|---------------|----|---|------------|----|----|-------|--|--|-------|-----|----|--------------|-------------------|---------------------|----|---------------|----------|---|---------------|---------|---|----------|---------|---|------------------|---------|---|----------------|---------|-------|--|--|---|----------------------|----|
| <b>Learning outcomes:</b>                                            | <b>Knowledge:</b> <ul style="list-style-type: none"><li>Recognizes the importance of ecology in urban development and defines relevant concepts</li></ul> <b>Skills:</b> <ul style="list-style-type: none"><li>Applies acquired knowledge foundational for developing abilities in an interdisciplinary approach to ecology</li></ul> <b>Competencies:</b> <ul style="list-style-type: none"><li>Equipped to carry out specific activities aimed at improving the quality of urban life.</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><br><b>Assessment:</b> <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>                                       | <b>Mandatory:</b> <ol style="list-style-type: none"><li>Šator, Čomić, Knežević, Plava knjiga, okolina u strategijama razvoja BiH, Ceteor, Sarajevo, 2004.</li><li>Mijanović, K., Okolinska etika za inženjere, Univerzitet Džemal Bijedić Mostar, 2010.</li><li>Lješević, M.A.2002. Urbana ekologija , Geografski fakultet, Beograd.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |

<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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**Recommended:**

1. Nacionalni program za zaštitu okoliša NEAP BiH: Završni izvještaj, Sarajevo, Privredna komora BiH, 2002.
2. Banović, R., Arapčić, E.: Zaštita okoliša, novi način razmišljanja, Tuzla, Infograf, 2000.
3. Đukanović M. 1984, Ekološke dimenzije u izgrađivanju prostora Institut za dokumentaciju zaštite na radu, Niš.