



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE  
SUBJECT DESCRIPTION

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|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                       |                        |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------|
| <b>Subject code:</b><br>FG-205-3           | <b>Subject name:</b> Biogeography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                       |                        |
| <b>Study cycle:</b> I                      | <b>Year:</b> II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Semester:</b> IV                                                   | <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>                 | The main goal of the subject is to acquire general knowledge of the distribution of the living world on Earth, as well as the factors and processes that have conditioned the spatial distribution of plant and animal species in the past and today.                                                                                                                                                                                                                                                                                                                                                                              |                                                                       |                        |
| <b>Teaching units:</b>                     | <ol style="list-style-type: none"><li>1. Introduction to Biogeography</li><li>2. Types of areal. Distribution of species in areal</li><li>3. Elements of flora</li><li>4. Endems and relicts</li><li>5. Origin spots and migration of species</li><li>6. Disjunctives</li><li>7. First test</li><li>8. Biological invasions</li><li>9. Island biogeography</li><li>10. Zoogeographic regions</li><li>11. Floristic regions</li><li>12. Biogeographical differentiation of the World</li><li>13. Anthropogenic impacts on plant and animal distribution</li><li>14. Hot spots of biodiversity</li><li>15. Protected areas</li></ol> |                                                                       |                        |
| <b>Learning outcomes:</b>                  | <b>Knowledge:</b> <ul style="list-style-type: none"><li>• student critically analyzes the distribution of the living world on Earth</li><li>• student identifies the types of areas and the distribution of species in the area</li><li>• student explains the connection between factors and processes that determined spatial distribution of plant and animal species in the past and today</li></ul> <b>Skills:</b> <ul style="list-style-type: none"><li>• student independently identifies various influences on plants and animals distribution in the world and in</li></ul>                                               |                                                                       |                        |



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|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|--|------------|---|---|---------------------------|---|---|-------|----|----|---------------|----|---|------------|----|----|-------|--|--|-------|-----|----|--------------|-------------------|---------------------|----|---------------|----------|---|---------------|---------|---|----------|---------|---|------------------|---------|---|----------------|---------|-------|--|--|---|----------------------|----|
|                                                                      | Bosnia and Herzegovina<br><b>Competencies:</b> <ul style="list-style-type: none"><li>student independently interprets the biogeographical differentiation of Bosnia and Herzegovina</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>5</td></tr><tr><td>Final exam</td><td>40</td><td>22</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 | 5 | Final exam | 40 | 22 | <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                   |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| Final exam                                                           | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 22                  |               |  |            |   |   |                           |   |   |       |    |    |               |    |   |            |    |    |       |  |  |       |     |    |              |                   |                     |    |               |          |   |               |         |   |          |         |   |                  |         |   |                |         |       |  |  |   |                      |    |
| <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>Đug, S., Škrijelj, R., 2009.: Biogeografija. Prirodnomatematički fakultet, Sarajevo.</li><li>Škrijelj, R., Đug, S., 2009.: Uvod u ekologiju životinja. Prirodno-matematički fakultet, Sarajevo.</li><li>Đug, S., Osmanović, M. 2023.: Praktikum iz biogeografije, Prirodno-matematički fakultet, Sarajevo.</li></ol> <b>Recommended:</b> <ol style="list-style-type: none"><li>McCravy, K., 2016.: Biogeography: a brief introduction, 1st edition, Western Illinois University (available at: bookboon.com)</li><li>McPherson, G.R., DeStefano, S., 2003.: Applied Ecology and Natural Resource Management. Cambridge University Press,</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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NewYork.

3. Milanović,Đ.,Brujić,J.,Đug,S.,Muratović,E. i Lukić Bilela, L.,  
2015.: Vodič kroz tipove staništa BiH prema Direktivi o  
staništima EU. Prospect C&S s.a.. Rue du Prince Royal 83,  
1050 Brussels, Belgium.

4. Smjernice za pripremu Planova upravljanja za Natura 2000  
područja u Bosni i Hercegovini. EU.  
ProspectC&Ss.a..RueduPrince Royal 83, 1050 Brussels,  
Belgium,2015.