

| Study program  | Study cycle   |  | I study cycle                 |   |                           |                 |     |    |
|--|---|--|-------------------------------|---|---------------------------|-----------------|-----|----|
|  | Orientation   |  | Regional and Spatial Planning |   |                           |                 |     |    |
| <b>SUBJECT</b>   |   |  |                               |   |                           |                 |     |    |
| Subject name   | <b>Pedogeography</b>  |  |                               |   |                           |                 |     |    |
| Subject code   | Semester  | Subject status                           | ECTS credits                  | Contact hours                               |                           |                 |     |    |
| FG-106-2   | II  | Mandatory                                | 5                             | 125   |                           |                 |     |    |
| Prerequisites  |   |  |                               |   |                           |                 |     |    |
| Assigned professors and assistants   | Subject Leader  | Dr. sc. Edin Hrelja, assistant professor |                               |   |                           |                 |     |    |
|  | Teaching Assistants   |  |                               |   |                           |                 |     |    |
| Subject objectives   | <p>The aim of the course is to acquaint students with the origin and development of soil as a natural-historical category, as a special sphere in which various pedogenetic processes take place.</p> <p>Through the course students will learn about the importance of soil in ecosystems, through the role of soil in the creation of organic matter in agriculture and forestry, ecological - regulatory role, source of genetic wealth and geodiversity protection, role in landscape design and appearance, soil role in archaeological research and spatial soil distribution in the world and in Bosnia and Herzegovina.</p> |  |                               |   |                           |                 |     |    |
| <b>SUBJECT CONTENT</b>   |   |  |                               |   |                           |                 |     |    |
| #  | Teaching units  |  |                               | Contact hours                               |                           |                 |     |    |
|  |   |  |                               | L   | P                         | S               | C   |    |
| 1.   | Introduction  |  |                               | 2   | 2                         | 2               | 1   |    |
| 2.   | Soil and its function in ecosystem  |  |                               | 2   | 2                         | 2               | 1   |    |
| 3.   | Soil as threephase system   |  |                               | 2   | 2                         | 2               | 1   |    |
| 4.   | Mineral component of the soil; Petrogenic minerals; Rocks   |  |                               | 2   | 2                         | 2               | 1   |    |
| 5.   | Genesis, composition and division of humus; Underground organisms   |  |                               | 2   | 3                         | 3               | 1   |    |
| 6.   | Soil physics  |  |                               | 2   | 3                         | 3               |     |    |
| 7.   | Soil chemistry  |  |                               | 2   |                           |                 |     |    |
| 8.   | Partial exam  |  |                               | 2   | 2                         | 2               | 1   |    |
| 9.   | Morphologic properties of soil  |  |                               | 2   | 2                         | 2               | 1   |    |
| 10.  | Pedogenic factors and processes   |  |                               | 2   | 2                         | 2               | 1   |    |
| 11.  | Soil classification   |  |                               | 2   | 2                         | 2               | 1   |    |
| 12.  | Geographic distribution of soils in the World   |  |                               | 2   | 2                         | 2               | 1   |    |
| 13.  | National soil classification in Bosnia and Herzegovina  |  |                               | 2   | 2                         | 2               |     |    |
| 14.  | Pedogeographical characteristics of Bosnia and Herzegovina  |  |                               | 2   | 2                         | 2               |     |    |
| 15.  | Use value, degradation and soil protection  |  |                               | 2   | 2                         | 2               |     |    |
| <b>STUDENT WORKLOAD (HOURS)</b>  |   |  |                               |   |                           |                 |     |    |
| Contact Hours  | 60  | Practical work                           |                               | Seminars                                    | 30                        | Exam study time | 10  |    |
| Literature – reading   | 15  | Written papers                           |                               | Other (Consultation)                        | 10                        | TOTAL           | 125 |    |
| <b>LITERATURA</b>  |   |  |                               | <b>EVALUATION OF KNOWLEDGE AND CRITERIA</b> |                           |                 |     |    |
| Mandatory:<br>1. Resulović, H., Čustović, H., 2002: Pedologija, Univerzitet u Sarajevu, Sarajevo;<br>2. Drešković, N., Mirić, R., 2017: Regionalna geografija Bosne i Hercegovine I, Univerzitet u Sarajevu, Sarajevo; |   |  |                               | 1.  | Attendance                |                 | 5   | 3  |
|  |   |  |                               | 2.  | Participation on lectures |                 | 5   | 3  |
|  |   |  |                               | 3.  | Partial exam              |                 | 40  | 22 |
|  |   |  |                               | 4.  | Seminar                   |                 | 10  | 5  |
|  |   |  |                               | 5.  | Students project          |                 |     |    |
|  |   |  |                               | 6.  | Final exam                |                 |     |    |

|  |       |                           |     |    |
|--|-------|---------------------------|-----|----|
| Optional:<br>1.Čustović, H., Pedogeografija – Skripta za internu upotrebu studenata odsjeka za geografiju Prirodno-matematičkog fakulteta.<br>2.Resulović, H., Čustović,H., Čengiđ, I. 2008: Sistematika tla/zemljišta, Univerzitet u Sarajevu<br>3.Škorić, A. (1986): Postanak, razvoj i sistematika tla, Zagreb; | 1.    | Attendance                |     |    |
|  | 2.    | Participation on lectures | 40  | 22 |
|  | Total |                           | 100 | 55 |
|  |       |                           |     |    |