

**CURRICULUM**  
**EDUCATIONAL AND QUALIFICATION DEGREE: MASTER**  
**COURSE OF STUDY: GEOTECHNICS**  
**VOCATIONAL FIELD: 5.7. ARCHITECTURE, CONSTRUCTION, AND GEODESY**

FORM OF STUDY: FULL-TIME

DURATION OF STUDY: 1,5 YEARS

Duration of the semester: 15 weeks

Duration of the third semester: 13 weeks

| Year   | Semester                              | №      | Course unit code   | Full name of the course units (course projects, practical training) | Form of control | Teaching hours (weekly) |           | Overall teaching hours by type of seminar |            |          | Overall academic load per semester | Credits acc. to ECTS |           |
|--|---------------------------------------|--------|--|---|-----------------|-------------------------|-----------|---|------------|----------|------------------------------------|----------------------|-----------|
|  |                                       |        |  |   |                 | L                       | S         | S   | Lab        | P        |                                    |                      |           |
| First  | First                                 | 1      | 232158   | Fundamentals of Geotechnics   | E               | 2                       | 1         | 15  |            |          | 45                                 | 4                    |           |
|  |                                       | 2      | 232160   | Construction Soils and Rocks  | E               | 3                       | 3         | 45  |            |          | 90                                 | 7                    |           |
|  |                                       | 3      | 152137   | Ground Water  | E               | 2                       | 1         | 15  |            |          | 45                                 | 4                    |           |
|  |                                       | 4      | 232162   | Mechanics of Construction Soils and Rocks                           | E               | 3                       | 2         | 30  |            |          | 75                                 | 6                    |           |
|  |                                       | 5      | 152135   | Geodynamic Phenomena  | E               | 3                       | 3         | 45  |            |          | 90                                 | 7                    |           |
|  |                                       | 6      | 152136   | Course project on Geodynamic Phenomena                              | CA              |                         | 1         | 15  |            |          | 15                                 | 2                    |           |
|  | <b>Overall for the first semester</b> |        |  |   |                 | <b>5+1</b>              | <b>13</b> | <b>11</b>                                 | <b>165</b> | <b>0</b> | <b>0</b>                           | <b>360</b>           | <b>30</b> |
|  | Second                                | 7      | 232164   | Measurement and Control in Geotechnics                              | E               | 2                       | 2         | 30  |            |          | 60                                 | 5                    |           |
|  |                                       | 8      | 232165   | Foundation  | E               | 3                       | 2         | 30  |            |          | 75                                 | 6                    |           |
|  |                                       | 9      | 232166   | Course project: Foundation  | CA              |                         | 1         | 15  |            |          | 15                                 | 2                    |           |
|  |                                       | 10     | 232163   | Mining Geotechnics  | E               | 3                       | 2         | 30  |            |          | 75                                 | 6                    |           |
|  |                                       | 11     | 232148   | Geomaterials  | E               | 2                       | 2         | 30  |            |          | 60                                 | 5                    |           |
| 12   |                                       | 232167 | Technology, Mechanisation, and Organisation in Geotechnics | E   | 3               | 2                       | 30        |   |            | 75       | 6                                  |                      |           |
| <b>Overall for the second semester</b>       |                                       |        |  |   | <b>5+1</b>      | <b>13</b>               | <b>11</b> | <b>165</b>                                | <b>0</b>   | <b>0</b> | <b>360</b>                         | <b>30</b>            |           |
| <b>Overall for the first year</b>            |                                       |        |  |   | <b>10+2</b>     | <b>26</b>               | <b>22</b> | <b>330</b>                                | <b>0</b>   | <b>0</b> | <b>720</b>                         | <b>60</b>            |           |
| Second                                       | Third                                 | 13     | 232168   | Underground Construction in Populated Areas                         | E               | 3                       | 2         | 26  |            |          | 65                                 | 5                    |           |
|  |                                       | 14     | 232159   | Geotechnical Facilities   | E               | 4                       | 2         | 26  |            |          | 78                                 | 6                    |           |
|  |                                       | 15     | 141106   | Seismic Methods   | E               | 3                       | 3         | 39  |            |          | 78                                 | 6                    |           |
|  |                                       | 16     | 232161   | Ecology and Recultivation   | E               | 2                       | 1         | 13  |            |          | 39                                 | 4                    |           |
|  |                                       | 17     | 212132   | Investment Process and Methods for Investment Project Assessment    | E               | 2                       | 1         | 13  |            |          | 39                                 | 4                    |           |
|  |                                       | 18     | 232152   | Pre-diploma practice - 10 days                                      | CA              |                         |           |   |            |          | 60                                 | 2                    |           |
|  | <b>Overall for the third semester</b> |        |  |   |                 | <b>5+1</b>              | <b>14</b> | <b>9</b>                                  | <b>117</b> | <b>0</b> | <b>0</b>                           | <b>359</b>           | <b>27</b> |
| Development and defence of the diploma paper |                                       |        |  |   |                 |                         |           |   |            |          |                                    | 15                   |           |
| <b>Overall for the second year</b>           |                                       |        |  |   | <b>5+1</b>      | <b>14</b>               | <b>9</b>  | <b>117</b>                                | <b>0</b>   | <b>0</b> | <b>359</b>                         | <b>42</b>            |           |
| <b>OVERALL FOR THE FULL COURSE OF STUDY</b>  |                                       |        |  |   | <b>15+3</b>     | <b>40</b>               | <b>31</b> | <b>447</b>                                | <b>0</b>   | <b>0</b> | <b>1079</b>                        | <b>102</b>           |           |

Abbreviations: E - examination; CA -continuous assessment; L - lectures; Lab - laboratory seminars; S -seminars; P - practical seminar

**Parameters of the Curriculum:**

Overall teaching hours for the full course of study: 1079

Academic load: 1065

lectures: 600

seminars: 465

Extracurricular load (practical training): 60

Number of exams: 15

Items of continuous assessment: 3