

# General information

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**Programme title:** Geotechnology and Mining

**Degree:** Undergraduate first-level study programme – Higher education professional study programme

**Duration:** 3 years (6 semesters); a total of 180 ECTS credit points

**Title awarded:** diplomirani/a inženir/ka geotehnologije in rudarstva (VS)

## Basic goals and competences

The higher education professional study programme Geotechnology and Mining offers an education steeped in the natural sciences and engineering, following the latest developments in professions centring on geoscience and non-living matter. Increasingly, we have also seen the need for students to acquire other knowledge, for example from the areas of environmental protection, economics and IT.

## Graduate competence profile

Generally acquired graduate competences +

- The programme gives students the necessary theoretical and practical knowledge needed to solve actual professional problems in practice; at the same time, it offers an introduction to the fundamentals of conducting research, which are key for further studies at higher levels of education.
- With the help of electives, students have the possibility to further their knowledge in areas they find especially interesting.
- The programme provides students with the competences necessary to secure employment in a wide area of industries involving extracting ore, primary processing of ore, construction of underground and other geotechnical structures, drilling techniques, work for measuring and tracking in nature, work for assessing and implementing activities affecting nature, the restoration of degraded areas, environmental management, solid waste materials, etc.

Overview of specific graduate competences according to individual study levels Geotechnology and Mining+

The competence profile of a student completing the undergraduate higher education professional programme encompasses the following competences:

- Fundamental expert knowledge in the field of geotechnology and mining;
- Ability to understand and theoretically justify professional topics involving the natural sciences and engineering, especially when it comes to activities conducted in soil and rock;
- Ability to identify concrete and practical problems, analyse them theoretically, find solutions and act accordingly; ability to cooperate in developing and transferring research and development achievements into practice within geotechnology and mining;
- Ability to execute less complex research work using scientific methods; ability to understand the interdependence between the natural sciences, modern technologies and engineering;
- Ability to communicate with co-workers and experts from related fields and the ability to lead smaller projects

in the field of geotechnology and mining;

- Ability to assume professional, ethical and environmental responsibility;
- Ability to be professionally critical and responsible when it comes to designing and implementing geotechnological and mining work as well as work in related fields.

## ✖ employment possibilities

✖ The knowledge and skills obtained enable graduates to work in demanding professional and managerial jobs in  
✖ both the public and private sector. Graduates are especially able to find work in mining, in construction, in utility  
✖ and road companies, in other extractive industries where there is a need for raw material extraction and in  
✖ activities in the earth's crust connected to the construction of infrastructure, dumps, landfills, the rehabilitation  
✖ of damaged areas, etc.

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