

# Mining of Mineral Resources

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<b>Faculty</b>	Faculty of Mining and Geology
<b>Type of study</b>	Bachelor
<b>Language of instruction</b>	English
<b>Code of the programme</b>	B0724A290002
<b>Title of the programme</b>	Mining of Mineral Resources
<b>Regular period of the study</b>	3 years
<b>Coordinating department</b>	Department of Mining Engineering and Safety
<b>Coordinator</b>	doc. Ing. Pavel Zapletal, Ph.D.
<b>Key words</b>	mine, overburden, mining law, mining, quarry

## About study programme

If we want to keep using the light and heating, and to build, we need to continue extracting mineral resources. If we want to accelerate transport, we need to dig tunnels. If we want water, we need to sink wells. For all these reasons, we need professionals who will know what to do. No way we ignore the environment. We will teach you how to redevelop the post-mining landscape effacing the effects of mining. You will become a specialist in open-cast and underground mining, mineral processing and land reclamation. After graduation you can easily find jobs in the raw material or construction industries, occupational safety, all the way to public service bodies.

## Graduate's employment

Graduates of the Bachelor's degree study "Mining of Mineral Resources" have wide possibilities of finding employment especially in organizations carrying out mining operations and mining activities under the "ČBÚ Decree 298/2005 as amended on professional qualification". According to the professional skills, they can find employment in other economic positions, coal, ore and non-ore operations, in the areas of design, geomechanical services, ventilation, transportation, quality control and safety.

## Study aims

The study program "Mining of Mineral Resources" accepts the change in conditions in the mining industry, which has resulted in a decreasing number of students. With the decrease in mining coal deposits, however, mining non-coal deposits and construction materials increases. The field of study is designed so that future graduates have the widest possible options of finding employment. The choice of specialized subjects is based on Decree no. 298/2005 Coll. as amended, which is the fundamental document for the performance of selected regulated activities for graduates. It educates qualified professionals working in the areas of resource industries in the Czech Republic and abroad, both in surface and underground mines. Students can also find employment in public administration, design companies, construction and other sectors dealing with occupational safety, traffic safety and remediation of mining activities. To some extent, students can influence their specialization by appropriate selection of elective courses.

## Graduate's knowledge

Graduates acquire a broad knowledge of the issues related to the particular study program, they can solve the concept of geological exploration, work with a map, design mining deposits, propose remediation and reclamation of post-mining deposits. They can apply simpler tasks in order to maximize the efficiency of mining works. They are able to understand the fundamental issues of safety and legal issues of mining. They have knowledge of theories and methods of the discipline.

## **Graduate's skills**

Using the expertise based on generally defined task, graduates can solve practical problems in the field, find, organize and interpret information relevant to a given task, and use some basic research processes in the field. They are able to understand the technical documentation and mapping, they have expertise in the issue of deploying engineering, mining and transport equipment, and they are able to solve issues of developing technological and safety procedures, and to ensure and apply these issues directly to the operating departments. They can organize teamwork.

## **Graduate's general competence**

Graduates of the Bachelor's degree study "Mining of Mineral Resources" meet the criteria for qualification requirements of certain management positions ("ČBÚ – Czech Mining Administration Decree 298/2005") in mining and quarrying both in underground mines and quarries. They are able to make responsible decisions in familiar contexts based on the framework specification and according to the assignment and allocation of resources to coordinate the activities of the team and assume responsibility for its results. While solving problems, they are able to consider the ethical dimension, to clearly and persuasively communicate with professionals and laymen about the nature of the issue according to their own opinion of the solutions.