

Mining of Mineral Resources

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Faculty	Faculty of Mining and Geology
Type of study	Follow-up Master
Language of instruction	English
Code of the programme	N0724A290002
Title of the programme	Mining of Mineral Resources
Regular period of the study	2 years
Coordinating department	Department of Mining Engineering and Safety
Coordinator	prof. Ing. Vlastimil Hudeček, CSc.
Key words	blasting operation, ventilation, stone quarry, mining, geomechanics

About study programme

The study program “Mining of Mineral Resources” follows up to the Bachelor’s degree study in the same program. It expands knowledge in specialized mining subjects studied in Bachelor degree study and in subjects focused on issues of operational safety. The inclusion of practical subjects will strengthen the flexibility of the field with respect to the practical requirements. The attractiveness is increases due to practice and excursions to the operational organizations, with the possibility of finding employment after graduation. The subjects are selected so that future graduates have the widest possible options to find employment in management positions both in mining and in other fields related to mining.

Graduate's employment

Graduates the study program “Mining of Mineral Resources” have wide possibilities of finding employment in organizations carrying out mining operations and mining activities under the “ČBÚ Decree 298/2005 as amended on professional qualification”. They can hold key management positions up to the “mine manager” or “quarry manager” (quarry operations with an annual extraction of up to 500 thousand tonnes). Students can also find employment in state administration, design companies, construction and other industries dealing with occupational safety, traffic safety and remediation of mining activities.

Study aims

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. The subjects follow the Bachelor degree study of the above mentioned program. Graduates are professionals for management positions in the areas of resource industries and skilled professionals for domestic and foreign surface and underground mines. The study program is designed so that future graduates have the widest possible options of finding employment (from mine opening to mine liquidation and remediation of mining activities). Students can also find employment in public administration, design companies, construction and other sectors dealing with occupational and operational safety.

Graduate's knowledge

Graduates can analyse input information, find mutual links and order it according to its importance, and apply the information when designing particular proposals of ways of opening, preparation and mining of coal, ore and non-ore deposits, using both underground and surface methods. Graduates can assess the strengths and weaknesses of the proposals with the subsequent recommendation of the implementation. They have knowledge of the mining safety and legal issues.

Graduate's skills

Graduates are able to lead and manage a team, they are able to clarify the nature of a particular issue, to answer questions in a discussion on the issue of solutions, analyse problems and recommend the most appropriate alternative of the solution, they are able to apply their knowledge on specific solutions and to communicate the results to a wider range of employees. They are knowledgeable in the area of legislative and safety standards associated with mining and utilization of mineral resources.

Graduate's general competence

Graduates of the follow-up Master's degree in the study program "Mining of Mineral Resources" meet the qualification requirements for the performance of key management positions in mining and quarrying in mines and quarries. They can make independent and responsible decisions, coordinate the activities of the team and assume responsibility for its results. They clearly and convincingly communicate the requirements in order to solve specific situations. They are able to clearly summarize the opinions of other team members and use their expertise, skills and general professional qualifications in at least one foreign language. They are able to acquire additional expertise, skills and competence independently, primarily on the basis of practical experience and its evaluation, as well as through independent study of theoretical knowledge in the program.

Study curriculum

- form Full-time (en)