MINING ELECTRIFICATION AND AUTOMATION

The program is designed to train specialists in the field of operation of electrical systems of mining enterprises, including complete electrical equipment, electrical networks, operation of protection and automation systems, as well as complexes for ensuring electrical safety and safe operation of technological installations; creation and operation of electromechanical complexes of machines and equipment of mining enterprises, including electric drives, converting devices, and their control systems; creation and operation of systems for the automation of technological processes, machines and installations of mining.

Graduates carry out their professional activities at enterprises of the exploration and mining industries.

Prerequisites:
- School leaving certificate of secondary (full) comprehensive education
- the results of the entrance examinations of Siberian Federal University
- good command of the Russian language

Qualification: Mining engineer

Skills/ objectives:
- operate electrical systems of mining enterprises; solve production and scientific problems during the operation of electrical, electromechanical systems of mining enterprises, automation systems of technological processes, machines and installations of mining production;
- to design power supply and automation systems for mining enterprises, as well as enterprises for operational exploration, mining and processing of solid minerals, as well as the construction of underground facilities using modern computer-aided design systems;
- analyze processes in power supply systems and automation of mining operations, mining and construction industries and complexes of equipment used as objects of management;

Program length: 5 years 6 months
Starting date: September, 1st
Language of instruction: Russian
Tuition fee per year: -
Program Leader: Valeriy S. Kulikovsky

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MINING ELECTRIFICATION AND AUTOMATION

CURRICULUM

- Theory and calculation of electrical machines;
- Electric drive;
- Means and systems for ensuring electrical safety at mining enterprises;
- Automation of mining enterprises;
- Electrification of mining enterprises;
- Physical foundations of electronics;
- Theoretical foundations of electrical engineering;
- Electrical measurements;
- Basics of power supply for industrial enterprises;
- Automatic control theory;
- Conversion technology;
- Elements of automation systems;
- Electrical materials;
- Mathematical models and characteristics of electrical systems.

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