**Annotation of the programme**

**13.03.02 Electrical power engineering and electrical technology**

**(Bachelor programme)**

**Title of the programme:** Power supply.

**Objectives of the programme:** to get higher vocational education allowing a graduate to work successfully in the field of his activity connected with electrical power engineering and electrical technology, power supply of enterprises and productions in the nuclear and chemical industry and other industries, to have the commonly cultural and professional competences promoting his (her) social mobility and stability in the labour market.

**Terms of education**: at the full-time department – 4 years, external – 5 years.

**Speciality chair:** Chair of electronics and automatics of physical devices (№ 5).

**Professional spheres:** the complex of technologies, means and methods of human activities for energy generation, transmission, distribution, conversion, use of electrical power, energy flux control, development and production of elements, devices and systems implementing the processes.

**Objects of the professional activity:** power supply systems of equipment and industries; power plants and complexes on the basis of non-conventional and renewable sources of energy; electrical machines, transformers, electromechanical equipment and systems including their control and regulation; electrical and electronic apparatus, complexes and electromechanical systems, automatic devices and control systems of energy fluxes; electrotechnological installations and processes, electroheating devices; different types of electrical transport and ensuring means of transport system effective operation; normative-technical documentation and standardization systems, testing methods, means and quality control of electrotechnical industry products, electric equipment and power supply systems, electrotechnological installations and systems.

**Curriculum features:** intense training on generally professional and special subjects. There are some subjects among basic and special ones: mathematics, informatics, chemistry, a foreign language, physics, system computer design in the power industry, engineering graphics, theoretical mechanics, electronic and microprocessor equipment, receivers and consumers of electric energy of power supply systems, cities and industrial enterprises power supply systems, relay protection and electrical power system automation, automatic equipment in power supply systems, reliability of power supply systems at the enterprises.

Accounting requirements of employers in forming the curriculum and a number of subject content is an advantage of this GEP. The skilled and qualified teaching staff meeting all requirements of educational standards and also highly qualified specialists of the basic enterprise JSC "Siberian Chemical Plant" are involved in GEP realization.

**The list of enterprises for the practical training and graduates’ employment:** enterprises of the State Corporation ROSATOM as well as other industry organizations. They are JSC "Siberian Chemical Plant", Seversk; Federal State Unitary Enterprise "Mining and Chemical Plant", Zheleznogorsk; JSC "Production Association "ECP", Zelenogorsk; JSC "Novosibirsk Plant of Chemical Concentrates", Novosibirsk; Beloyarskaya NPP, Zarechny; Leningradskaya NPP, Sosnovy Bor; JSC "Tomsk Petrochemical Plant", Tomsk, etc.