**Annotation of the programme**

**18.06.01 Chemical technology**

**(highly qualified personnel training)**

**Title of the programme:** 05.17.02 Technology of rare, scattered and radioactive elements.

**Objectives of the programme:** making trained conditions for gaining required professional level of knowledge, skills, experience and background to defense scientific qualification work (thesis) for getting a scientific degree Master of Science.

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

**Speciality chair:** Chemistry and technology of modern energetics materials (№ 10).

**Professional spheres:** methods, ways and means of substances and materials obtaining by means of physical, physical and chemical, chemical processes, production of different function products on their basis; physical and chemical methods of material processing; production making, application and operation of main inorganic substances, construction materials, products of basic and thin organic synthesis, polymeric materials, reprocessing products of oil, gas and solid fuel, medicines, power and energy-packed materials and products on their basis; personnel training of higher vocational education in the field of chemical technology.

**Objects of the professional activity:** chemicals and materials; methods and devices of structure, substance and material properties determining; equipment, technological processes and industrial systems of obtaining substances, materials, products and also system control and regulation; software for simulation of chemical and technological processes.

**Types of professional activity:** research and innovative activity in the field of chemical technology; teaching activity on the higher education programmes.

**Curriculum features:**

The main feature of the educational process is highly qualified personnel training aimed to mastering all types of the professional activity a graduate to get ready. Post-graduates’ scientific and research work is fulfilled in close connection with the works carried out on the chairs of STI NRNU "MEPHI" and in the research organizations of the state corporation Rosatom and the Russian Academy of Sciences.

**The list of enterprises for the practical training:** structural department chairs and laboratories of NRNU "MEPHI"; chairs and laboratories of STI NRNU "MEPHI"; profile enterprises of the state corporation Rosatom; scientific and research institutes of the Russian Academy of Sciences; academic scientific and research organizations of knowledge-consumptive industries of the Russian Federation.