**ANNOTATION**

of educational program

**09.03.02 Information Systems and Technology**

**Training profile:** Mathematical, hardware and software information systems

**Program Name**: 09.03.02 Information Systems and Technology

**Objectives**: to provide students with modern education in the field of informatics and computer engineering through the formation of students' particular set of competencies needed for future professional activities, for research, development of software and hardware products vital for the Russian society, government and business; to form general cultural (universal) and professional competence in accordance with the basic standard requirements of the National Research Nuclear University MEPhI; to ensure the efficiency and smooth functioning of the computer-aided design; mathematical, informational, technical, linguistic, software, ergonomic, organizational and legal support of computing and information systems.

**Terms of training** in full-time education are 4 years.

**Graduate Departments**: Department of Information Technology.

**The area of professional activity**: includes research, development, implementation and maintenance of information technology and systems in industrial enterprises and organizations of the city and the region.

**Objects of professional activity**: are the information processes, technologies, systems and networks, their tool (programming, technical, organizational) software, techniques and methods for designing, debugging, production and operation in the field of process control systems and information technology (industry).

**Features of the curriculum**: the logical sequence of the development of cycles and of the educational program sections (disciplines, practices, research work), ensuring the formation of competencies, is reflected; the study of the following training cycles: humanitarian, social and economic cycle; mathematical and natural-science cycle; professional cycle and sections: physical education; training and manufacturing practices; final state attestation in the form of training and defense of the final bachelor work are considered. Each training cycle comprises a basic part, in which binding educational disciplines are given by the standard, and a variable part, in which academic subjects are introduced by university decision (for example, object-oriented programming). At least 1/3 of the variable part is the disciplines of students' choice that allows to create individual educational trajectories. Annually the curriculum program is updated taking into account the development of science, technics, culture, economy, technology and the social sphere. As part of the competency approach realization the use of active and interactive forms of lessons is provided.

**The list of enterprises for practical training and employment of graduates**: industrial practice is conducted in accordance with the "Program Manufacturing Practices" on the basis of Research Institute of Atomic Reactors,Sosny Research and Development Company Ltd, SimbirSoft Ltd, AIS Gorod Ltd, Zenit-himmash, Dimitrovgrad Auto Aggregate Plant “DAAZ”, Priz Ltd (Dimitrovgrad), Radiopharmaceutical plant (Dimitrovgrad), Dimitrovgrad High-Tech Radiological Medical Center and other enterprises subordinate FMBA of Russia, as well as machine-building enterprises of the region and other organizations that use information technology in accordance with the direction and the profile of the preparation. These companies and organizations are the places of employment of graduates.