**ANNOTATION**

of educational program

**09.03.01 Computer Science and Engineering**

**Training profile:** Software, computer equipment and automated systems

**Program Name**: 09.03.01 Computer Science and Engineering

**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; ensuring efficiency and smooth functioning of computers, complexes, systems and networks; computer-aided design systems and information support of industrial product life cycle; 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**: computers, systems and networks; automated information processing systems and management; computer-aided design and product information support; the software of the automated systems of industrial enterprises and organizations of city and region.

**Objects of professional activity**: computers, complexes, systems and networks; automated information processing systems and management; computer-aided design and information support of industrial product life cycle; software, computer equipment and automated systems.

**Features of the curriculum**: the logical sequence of the development of cycles and of the curriculum 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 are 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), the Federal High-Tech Medical Radiology Center of Dimitrovgradand other enterprises subordinate the Federal Medical and Biomedical Agency of Russia, as well as machine-building enterprises of the region and other organizations that useinformation technology in accordance with the direction and the profile of the preparation. These companies and organizations are the places of employment of graduates.