

01.03.02 Applied Mathematics and Informatics «Mathematical Tools and Software for Cyberphysical Systems»

The educational program is focused at graduating bachelors in the field of mathematical, algorithmic and software engineering and information systems and technologies for various purposes. Students are trained in the development of mathematical and software for modeling technical systems and information processing including informatization and optimization of control processes in conflict situations, the development of control systems for aerospace complexes, mathematical and program software for information and analytical systems for processing operational parameters of nuclear power plants to ensure their safety. The department also educates software developers for multi-user operating systems, databases, expert and geographic information systems.

Unique disciplines:

- Statistical methods of information processing
- Numerical Methods
- Databases
- Game theory
- Theory of nonlinear and digital automatic control systems
- Fundamentals of neural networks
- Digital signal processing
- Expert systems
- System programming in UNIX OS
- Mathematical models of dynamic systems and physical processes

Professional opportunities:

- Rosatom
- Yandex
- VK
- Aeroflot
- Moscow Exchange