Brief Description of the Program

Career

Computer technology worldwide is developing exponentially. Data analysis, machine learning and artificial intelligence penetrate all spheres of human life. A specialist in applied mathematics and computer science is a developer and researcher who can work in different fields and create products that change lives of millions of people for the better.

Educational process

Students are intensively immersed in the profession as early as in the first year of their studies. They do a complete course of discrete mathematics, mathematical modeling, C programming, Web application development and Web programming. Interactive practical classes and laboratory work help students understand the nuances of their future profession. Master classes conducted by leading IT specialists, participation in competitions of innovative projects and developments, communication with potential employers contribute to the formation of professional competencies of future IT specialists.

Disciplines

- ✓ Informatics
- ✓ Numerical Methods
- ✓ Probability Theory and Mathematical Statistics
- ✓ Discrete Mathematics
- ✓ Introduction to Project Activities
- ✓ Artificial Intelligence Systems
- ✓ Mathematical Models of Socio-economic Systems
- ✓ Information Systems and Processes
- ✓ Modeling in the Natural Sciences
- ✓ Mathematical and Computer Modeling
- ✓ Web Application Development and Web Programming
- ✓ High Level Programming Languages

Practical training

Every year, students undergo practical training in the departments and laboratories of the University. Various enterprises of the city and region, having information structure, are also the venues of practical training. During their practice, undergraduate students learn to collect, process and interpret research data; apply modern mathematical apparatus; develop and apply algorithmic and software solutions in the field of system and application software; solve the tasks of professional activity working in research or production teams.

Career

After completing the educational program, graduates will be able to work with artificial intelligence systems; simulate and develop software for the new generation of computers; develop software and information support of computer networks, automated systems of computer complexes, services, operating systems and databases; work with systems of digital image processing, computer graphics, multimedia and computer-aided design; apply modern supercomputers in research. The graduate will be able to find a job as a programmer, engineer, data analyst, researcher and scientist, developer of algorithms and analyst.