

09.04.04 Software Engineering

Highly-Critical Cybernetic Systems Development Technologies

Program objective

Highly-qualified master training, with special background in the field of cybernetic system development technologies, for high-tech industries' companies.

The program combines a theoretical approach to SQL programming based on relational theory and real SQL programming.

Curriculum features

- discrete mathematics
- database systems and technologies
- AI systems and technologies
- cybernetic systems development technologies
- models of physical processes in nuclear systems

Key alumni abilities and competencies obtained:

- introduction of new information technologies into system's infrastructure
- development of software tools for systems for ERP software quality management systems
- business consulting and engineering
- methods and tools for software development

Practical training and professional activities

Design, implementation and maintenance of information systems and software products in the field of applied mathematics and computer science for state, industrial and commercial organizations (for instance, State Atomic Energy Corporation "Rosatom" companies; computing centers and data centers).