

09.04.04 Software Engineering

Artificial intelligence and Software Engineering

Highly-qualified master training, with special background in the field of cybernetic system development technologies, for high-tech industries' companies. In addition to disciplines related to software engineering, the curriculum provides training in artificial intelligence. Students will learn machine learning techniques, including neural networks, data analysis techniques, and biologically motivated cognitive architectures.

Curriculum features

- AI systems and technologies
- machine learning and neural networks architectures;
- biologically inspired cognitive architectures;
- discrete mathematics
- database systems and technologies
- cybernetic systems development technologies

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 artificial intelligence, applied mathematics and computer science for state, industrial and commercial organizations (companies and computing centers and data centers).