

## **09.04.04 Software Engineering**

### **Advanced Technologies for Information Systems Modeling**

The program studies the systematic application of computational theory methods to software engineering applications. In particular, we study the application of formal semantics methods of computer programs in the design process in order to control the properties of the resulting software. In addition, the program is dedicated to the use of semantic technologies in modeling and designing information systems.

#### **Curriculum features**

- Systems theory and system analysis
- Modern architectures of intelligent systems
- Corporate information systems
- Object-oriented programming
- Abstract computing machines
- Design of knowledge-based cybernetic systems
- Design of databases for cybernetic systems
- Semantic configuration of software systems
- Web application design

#### **Future professional opportunities**

- industrial production of software for information and computing systems for various purposes
- research and development in the field of informatics and computer technology.