

Official Length of Programme, Mode of study

240 credits, full-time studies, four year studies

Qualification Degree

Bachelor of Computing

Field of Study

Information Systems

Faculty

Faculty of Informatics

State Code

6121BX011

Head of the Field's Study Programmes

Assoc. Prof. K. stutis KAPO IUS

email kestutis.kapocius@ktu.lt

Objective(s) of a Study Programme:

To prepare graduates, who have good knowledge of mathematics, programming, management, law, project management and specific in-deep knowledge of information systems engineering, and are also able to practically analyse, design, implement and support information systems conforming with the modern information technology requirements.

Access to Professional Activity

The graduate can perform information systems design, programming, management and other engineering duties at various enterprises and organizations, can apply for such jobs an information systems analyst, architect, developer, database administrator, project manager, researcher and positions alike.

Become the most



Learning outcomes:

Underlying Conceptual Basis for Informatics

- A1 understanding of the key concepts and ideas of the field of information systems;
- A2 understanding of fundamental subjects that the field of information systems requires or is based on;

Analysis, Design and Implementation

- B1 skills of formalization and specification of the real-world problems whose solutions involve the use of informatics;
- B2 knowledge and skills required to model activities of enterprises and to perform detailed business analysis;
- B3 knowledge and skills required to analyze enterprise needs, specify information systems development and modernization requirements;
- B4 knowledge and skills required to design information systems and databases, prepare the design documentation;
- B5 knowledge and skills required to program, test, integrate, administer and install databases, user interface, business and other modules of information systems;
- B6 knowledge and skills required to create multidimensional data warehouses and analyze the data stored in them;
- B7 knowledge and skills required to plan and manage IS development, installation and expansion projects;
- B8 knowledge and skills required to audit and evaluate IS designs and working information systems;
- B9 skills required to apply information technologies (CASE tools, database managements systems, prototyping and programming environments, business modeling packages, etc.) for the solution of tasks;

Technological and Methodological Skills

- C1 skills of combining theory and practice to solve tasks that may arise during the development and operation of information systems;
- C2 knowledge and skills required to plan and conduct practical research, examine results;

- C3 theoretical understanding of state-of-the-art software and hardware technologies and tools and the skills required to use them;
- C4 literature analysis skills and the recognition of the need for life-long learning;

Other Professional Competences

- D1 skills required to communicate effectively with colleagues, (potential) clients, information systems users and general public on any information systems related issues;
- D2 skills required to systemically evaluate various tasks and situations, define their parameters, and break them down into smaller tasks at the same time providing suggestions on how to solve them;
- D3 skills of engineering solutions evaluation with regards to ethics, social, legal and security requirements;
- D4 skills required to work effectively both individually and in a team, assign tasks and responsibilities, manage projects and their teams;

