

Course title: Software engineering

Course code: 63732

ECTS: 6

Professor: Igor Rožanc

Undergraduate program

Prerequisite knowledge:

Mandatory:

- Student of study program in science or engineering

Desirable:

- Student of Computer Science study program
- Basic programming course (preferably Java)
- Basic web development course

Short course description:

Software Engineering (SE) is an obligatory course in the third year of the Computer and Information Science program at the professional level.

The course aims to give insight into the basics of SE, which is defined by a set of principles, methods, and tools for the efficient development of (especially large) software products. The course contains a presentation of a set of selected chapters, which in practice represent the crucial aspects of SE. The chapters covered in the course are:

- Software Engineering Basics
- SE Project Management
- Software Process
- Requirements
- System Design
- Module Design
- Implementation
- Testing
- Installation
- Maintenance
- Evaluation

Most of these SE concepts are presented in practice at the laboratory exercises. The main part of practical work is the development of different software projects by teams of 6 students, where they get practical SE and team work experience.