University Study Programme in Computer Science

Year one is the same for all students. In year two, students have eight mandatory courses and two elective courses. In year three there are two mandatory courses, a general elective course, one module open to selection and the diploma seminar.

Module: Computer Systems and Networks
- Calculus
- Introduction to Artificial Intelligence
- Introduction to Digital Circuits
- Computer Systems Organisation
- Computer Systems Architecture
- Operating Systems
- Computer Networks Modelling
- Communication Protocols
- Mobile and Wireless Networks
- Distributed Systems
- Algorithm and Data Structures 1
- Linear Algebra
- Ordinary Differential Equations
- Theory of Information and Systems
- Computing and Computational Complexity
- Intelligence Systems
- Machine Perception
- Data Management Technologies
- Electronic Business
- Systems Reliability and Performance
- Mathematical Modelling
- Principles of Programming Languages
- Computer Technologies
- Analysis of Algorithms and Heuristic Problem Solving
- System Software
- Software Development Processes
- Compilers
- General elective course
- Compilier Software
- Machine Learning
- Data Management Technologies
- Electronic Business
- Systems Reliability and Performance
- Mathematical Modelling
- Principles of Programming Languages
- Computer Technologies
- Analysis of Algorithms and Heuristic Problem Solving
- System Software
- Software Development Processes
- Compilers
- General elective course
- Compilier Software
- Machine Learning

Module: Media Technologies
- Introduction to Graphic Design
- Platform-based Development
- Multimedia Systems
- Computer Graphics and Game Technology
- Platform-based Development
- Multimedia Systems
- Computer Graphics and Game Technology
- Platform-based Development

Module: Informatics
- Introduction to Data Mining
- Information Systems Planning and Management
- Data Systems Development
- Informatics Planning and Management
- Development of Intelligent Systems
- Machine Perception
- Machine Learning
- Data Management Technologies
- Electronic Business
- Systems Reliability and Performance
- Mathematical Modelling
- Principles of Programming Languages
- Computer Technologies

Specialist elective courses:
- Web Programming
- Digital Design
- Organization and Management
- Systems Reliability and Performance
- Mathematical Modelling
- Principles of Programming Languages
- Computer Technologies

General elective course offered at FRI:
- English - Level A, B, C
- Topics in Computer and Information Science
- Computer Science in Practice I
- Computer Science in Practice II
- Computer Science Skills
- Economics and Entrepreneurships
- or other course provided by the faculties of the University of Ljubljana with the equivalent number of ECTS