**Object-oriented programming (ECTS credits: 7)**

Language: the course is offered in English, Serbian and Hungarian.

**Course description:**

The course covers some aspects of programming, introducing the students to the programming language C++ and object-oriented paradigm. During the class, students are encouraged to perform smaller tasks of programming console applications. The topics included in the lecture are: basics of C++, dynamic programming with pointers, dynamic structures (stack, queue, tree), sorting algorithms, OOP model: abstraction, encapsulation, inheritance and polymorphism. In class, the students cover the theoretical background, but the focus is on the practical application of the covered topics.

**Aims:**

The aims of this course include: The students should learn to solve programming tasks, build solutions using object-oriented concepts.