

## **FUNDAMENTALS OF PROGRAMMING: OBJECT-ORIENTED PROGRAMMING**

6 ECTS (CREDITS)

### **Purpose of the subject:**

To explain the basic principles, concepts and rules of object-oriented programming and to develop the ability to apply the ideology of object-oriented programming to problem solving.

### **Study subject annotation:**

The Object-Oriented Programming course is designed to teach students how to use basic object-oriented programming frameworks. It covers the understanding of key concepts such as class, method, and object. Students will learn to create and use constructors and destructors and gain an understanding of the basic principles of inheritance and class hierarchy. The course also covers the use of method overloading and polymorphism, as well as comprehension of the static and dynamic structures of programs.

Practical sessions, conducted in the computer room alongside lectures, provide students with hands-on experience. These sessions involve completing practical tasks that correspond to the main topics covered in the lectures.

### **Evaluation form:**

Exam