Course title: **Advanced object programming (updated: 27.03.2019)**		
Field of study: **Computer science**	Type of studies: **Full-time**	Course code: **61E70**
Course characteristics: **Mandatory**	Level of studies: **First**	Year: **3** Semester: **6**
Form of classes: **lectures, laboratories**	Hours per week: **2 lect, 2 lab written exam**	Credits: **6 ECTS**

COURSE GUIDE

GENERAL INFORMATION OF THE COURSE

AIMS OF THE COURSE

A1. Teaching students the advanced object programming in modern C++ (C++17).

PREREQUISITES

1. English language at the intermediate level at least.
2. Object programming and C++ language skills at the intermediate level at least.

LEARNING OUTCOMES (EFFECTS OF EDUCATION)

EE 1   A student can do the advanced object programming in modern C++.

COURSE PROGRAM

Lectures		Hours
1	memory model, expression value categories, references	**10**
2	move semantics, lambda expressions, containers	**10**
3	smart pointers	**10**
Laboratory classes		**Hours**
1	memory model, expression value categories, references	**10**
2	move semantics, lambda expressions, containers	**10**
3	smart pointers	**10**

DIDACTIC TOOLS

1. lectures
2. exercises solved by students during laboratory classes
3. written exam

BASIC AND SUPPLEMENTARY LITERATURE

1. Scott Meyers, Effective Modern C++, O'Reilly, 2014
2. Bjarne Stroustrup, The C++ Programming Language, Addison-Wesley, 2013
3. The standard of the C++ language

TEACHER (NAME, SURNAME, E-MAIL)

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