



Course Title:	Object Oriented Programming in C++
Institute/Division:	Department of Automation and Computer Engineering Faculty of Electrical and Computer Engineering
Course code:	E-OOP
Erasmus subject code:	0613 Software and applications development and analysis
Number of contact hours:	45
Course duration:	1 semester (Fall/Winter)
ECTS credits:	6
Course description:	The course covers introduction to Object Oriented Programming in C++ language: Introduction to C++ programming – environment, compilation process; Syntax of C++ in examples, principles of procedural programming in C++; Discussion of programming paradigms – Structural Programming vs Object Programming; Idea of Objects and Classes in development of object oriented applications; Representing relationships between classes in diagrams; Idea of generalization implemented by inheritance in C++; Advanced relationships between classes; Polymorphism; Overloading Operators. Laboratory exercises and individual project are aimed to expand experience in object oriented C++ programming.
Course type:	Lectures (20h), Computer laboratory (20h), Project (5h)
Literature:	Selected reviews from scientific literature
Assessment method:	Project, laboratory exercises and exam
Prerequisites:	-
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