



LITHUANIA BUSINESS COLLEGE

DESCRIPTION OF STUDY MODULE (FOR ERASMUS+ STUDENTS)

PROGRAMMING C++

Volume of subject	6.0 ECTS
Lecturer in charge	Prof. dr. Vitalij Denisov
Annotation	This course is designed to introduce students to the fundamental methodologies of modern programming and to teach them programming using the C/C++ programming languages. During the course, students learn to use complex conditional statements and loops, create functions, read data from files, and write data to files. In solving problems, they use arrays and develop data structures. The course also introduces students to recursive functions and basic algorithms. Upon completing the course, students should be able to solve non-standard problems using programming tools.
Topics	• Evolution of programming languages • Language syntax, operators, variables • Libraries and their usage • Conditional statements • Loops with a known number of iterations • Conditional loops • Functions • Recursive functions • Working with files • One-dimensional arrays • Two-dimensional and multidimensional arrays • Data structures • Pointers
Procedure for assessment of knowledge and competences	✓ 20 percent – midterm tests. ✓ 20 percent – individual work. ✓ 60 percent – final exam.