



LITHUANIA BUSINESS COLLEGE

DESCRIPTION OF STUDY MODULE (FOR ERASMUS+ STUDENTS)

COMPUTERS ARCHITECTURE AND OPERATIONAL SYSTEM

Volume of subject	6.0 ECTS
Lecturer in charge	assoc. prof. dr. Mindaugas Kurmis
Annotation	<p>The new content of computer architecture and operational system elements and usage principles. Reviewing the computer structure investigations, computer chains investigations during the laboratory works. Analyzing the operational systems usage and micro controller involvement during the construction process.</p> <p>After the course students:</p> <ul style="list-style-type: none"> ✓ will be able to understand main computer architecture classes computer components and functional principles. ✓ will know computer memory architecture logic principles. ✓ will be able to organize effective hard-drive management.
Topics	<ul style="list-style-type: none"> • Main computer architecture classes. • Computer components and functioning. • Main hard-drives and system analyses. • Progressive operational hard-drive technologies. • SA – “CASHE” systems. • Externat devises: machine type communicationnel devises. • Operational systems review. • Register components, instruction cycle, instruction conveyer. • Micro Controller usage un robotique techniques, distance management system.
Procedure for assessment of knowledge and competences	<ul style="list-style-type: none"> ✓ 20 percent – individual work and presentation; ✓ 10 percent – midterm test Nr. I; ✓ 10 percent – midterm test Nr. II; ✓ 60 percent – final exam.