LITHUANIA BUSINESS COLLEGE

DESCRIPTION OF STUDY MODULE (FOR ERASMUS+ STUDENTS)

COMPUTERS NETWORK AND INFORMATION SAFETY

Volume of subject	6.0 ECTS
Lecturer in charge	Lect. Darius Kadys
Annotation	The aim of the course is to introduce students to the technical, software and organizational tools of computer networks, communication channels, data transmission principles, protocols and their standards, network structure and technologies, architecture of local and wide area networks specifics of group networking and how to develop applications and scripts for networking. The course introduces the technical, software and organizational tools of computer networks, communication channels, data transmission principles, protocols and their standards, structure, and technologies of local area networks. It explains the architecture of networks, network operating systems and the specifics of group work in networks. Global computer networks are also covered, and the development of applications or scripts for networking is taught. Laboratory work includes modelling data signals, configuring peripheral equipment, diagnosing collisions, and optimizing speed. The course will enable students to detect information attacks in the network and to monitor the network security perimeter, and to use a variety of software and hardware information security tools.
Topics	• Concept of a computer network. • Types and models of computer networks. • Types of computer networks and their models. • Computer network topologies. • Computer network architecture. • Information security. • Safety algorithms and solutions.
Procedure for assessment of knowledge and competences	✓ 20 percent – midterm tests. ✓ 20 percent – individual work. ✓ 60 percent – final exam.