VILNIAUS KOLEGIJA/UNIVERSITY OF APPLIED SCIENCES
FACULTY OF ELECTRONICS AND INFORMATICS
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STATE CODE	**653I10001**
STUDY PROGRAMME	**SOFTWARE ENGINEERING**
QUALIFICATION DEGREE TO BE AWARDED	**PROFESSIONAL BACHELOR'S DEGREE IN INFORMATICS**
BASIC EDUCATION	**Secondary**
FORMS AND DURATION OF STUDIES	**Full-time studies – 3.5 years** - **Daily schedule (Lithuanian and English)** - **Session schedule (Lithuanian only)**
CREDITS	**210**
COMPLETION OF STUDIES	**Final project**
STUDY SUBJECTS:	
General college study subjects	Professional English, Specialties Language, Environmental and Human Safety, Sociology, Law, Economics, Management
Study field subjects	Mathematics, Operating Systems, Structured Programming, Information Technology, Probability Theory and Mathematical Statistics, Algorithms and Data Structures, Discrete Mathematics, Human-Computer Interaction Design, Computer Graphics, Methods of Computation and Optimization, Computers and Networks, Information Systems, Applied Physics, Object-Oriented Programming, Accounting Basics, Databases, Multithreaded Programming, Client-Side Web Development, Information Security, Software Engineering, Artificial Intelligence, Software Development Management.
Specializations and subjects:	
Database Systems	Database Management Systems, Data Mining, Management of Databases Servers, Collaborative Software Systems
Internet Technologies	Web Services, Server-Side Web Development, Web Security, Web Design
Practicums	Information Technology Practice, Structured Programming Practice, Object-Oriented Programming Practice, Database Practice, Professional Practice, Final Practice
Optional subjects	Physical Education, Philosophy, Quality Management, Culture History, Communication, Psychology, Business Ethics, Programming Language Java, Programming Language C#, Programming Language Swift, Computer Games Development, E-Commerce, System Programming, Software Systems Audit, Enterprise Organization and Governance, The Company's Internal Audit, Digital Audio and Video Technology, Telecommunications Networks Management, Applied Research Methodology
LEARNING OUTCOMES OF STUDY PROGRAMME	• To be able to communicate in official and foreign languages; • To be able to share professional knowledge; • To be able to work in multicultural environment; • To be able to follow ethical and professional behavior; • To be able to evaluate and adapt market changes; • To be able to apply quality management methods; • To be able to study individually, deepen and renew knowledge, improve qualification; • To be able to analyze and design data structures; • To be able to design and implement algorithms using programming tools; • To be able to select and apply testing tools and methods; • To be able to prepare software user manual and its technical documentation; • To be able to design, create and modify databases; • To be able to design, create and modify software user interfaces; • To be able to design, create and modify software; • To be able to analyze, select and implement information security solutions; • To be able to create and modify data processing solutions; • To be able to administer database management systems; • To be able to create and modify Web-based services solutions; • To be able to administer Web-based services systems.

THE AIMS OF STUDY PROGRAMME	To prepare well-qualified specialists, meeting the needs of Lithuanian sectors of industry and the level of the latest technologies and science, being able to work under conditions of rapid technological changes, being prepared to integrate into the Lithuanian and international community
GRADUATE WILL BE ABLE TO	- create, design and implement software and information systems; - analyze and understand principles of designing and using modern information technologies; - control aspects of up-to-date software industry of Lithuanian market; - perceive main aspects of business environment; - communicate, work in team, logically and systematically reason abilities; - apply special (creativity, flexibility, dynamism, creating friendly moral atmosphere criticism) and general (knowledge of foreign languages, communication, self-assessment and continual development) skills.
CAREER PROSPECTS	Will be able to work in enterprises, organizations, software and hardware market as an engineer of computer software, database designers, designers and developers of Internet technologies, and any other IT solution developers.
STUDENTS SUCCESSFULLY COMPLETED THIS STUDY PROGRAMME ARE AWARDED BY PROFESSIONAL BACHELOR'S DIPLOMA	