

STUDY PROGRAMME DATA

No	Parameters	Data
1.	Name of a study programme	Informatics
2.	Qualification to be awarded, code	Professional Bachelor of Computing, KVALLAIP00814
3.	Institution that has performed accreditation, accreditation term	Centre for Quality Assessment in Higher Education
4.	Accreditation order, term	2019-06-05, Nr. SV 6-15, 2020-08-31
5.	Place of delivery of a study programme	Klaipėdos valstybinė kolegija / Higher Education Institution, Company code: 111968056, Internet: www.kvk.lt
6.	Summary of Profile of a Study Programme	<p>General Description:</p> <p><i>Objective(s) of a study programme:</i></p> <p>To train highly qualified IT specialists in the following skills: developing and integrating secure software using programming paradigms, languages, and technologies that meet market needs; applying modern methodologies of analysis, design, programming, testing, and support in search of new ways of systems usage and efficient data and information processing solutions to solve relevant professional problems in various subject areas; self-studying for continuous personal and professional improvement; self-directed in teams; taking initiative and taking personal responsibility.</p> <p><i>Learning outcomes:</i></p> <p>The graduate of the programme is able:</p> <ol style="list-style-type: none"> 1. To explain main facts, concepts, theories, and mathematical methods of informatics, related to the functioning of the computers, computer hardware and software, its features and possibilities of practical usage, computer communications and applied solutions related to important historical, current, potential changes and tendencies in the future in the field of Computer Science. 2. To explain the principles of algorithm creation and analysis, programming paradigms, languages and technologies, human-computer interaction principles, typical software life-cycle stages, and software development and maintenance methods in the context of informatics. 3. To explain how the business, industrial, economical and social context affects the professional activity, which is defined with the norms of the ethics and regulated with the legal requirements, including the data protection, intellectual property rights, agreements, product safety, liability and other IT-related issues. 4. To apply knowledge of the informatics studies, while creating safe and other relevant criteria corresponding solutions to solve particular

		<p>professional activity problems.</p> <ol style="list-style-type: none"> 5. To explain the all-encompassing processes of digitalization and computer calculations, and the development of the field of informatics, while relating it with a specific speciality area. 6. To explain definitions and methods of data processing and analysis, modelling and optimization of systems, and artificial intelligence. 7. To define the problem of the professional activity of informatics. 8. To prepare data and information from various sources necessary when solving specific problem of the professional activity of informatics. 9. To analyse data, information, and solutions necessary when solving specific problem of the professional activity of informatics, based on specific criteria. 10. To assess data, and information necessary when solving specific problem of the professional activity of informatics and base it on reasonable conclusions. 11. To apply models of software life-cycle, development and maintenance methods, development environments and tools for typical application development projects. 12. To model real-world problems, for the solution of which the methods of informatics are applied, while assessing the complexity of the problem. 13. To select appropriate models, algorithms, data structures, methods of data management, software development and maintenance methods for informatics application projects and typical life-cycle stages. 14. To prepare specification, project, or other documentation necessary for the development of the product or service in the field of informatics. 15. To implement the product or service in the field informatics for the solution of a specific problem of the professional activity, taking into account the functional and non-functional requirements that are set. 16. To professionally communicate in the national and at least one foreign language with the audience of specialists. 17. To work in teams in accordance to the principles and rules of professional, ethical behaviour, and principles of social responsibility. 18. To self-study while seeking continuous personal and professional improvement. 19. To work independently and responsibly in taking initiative and personal responsibility. 20. To demonstrate creativity in solving tasks and
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	problems of the professional activity.
	<i>Activities of teaching and learning:</i>
	Informatics study programme is oriented to the development of generic and specialist competences and creativity: lectures, seminars, discussions, individual and group projects, course work, practice, homework, case studies, public presentation and defense of projects, individual counselling, mind-maps, problem-solving reading, writing articles, information search and systematizing, etc.
	<i>Methods of student achievement assessment:</i>
	The assessment of the learning outcomes of the study programme is carried out during the semester and the examination session applying a cumulative assessment system. During the semester, the learning outcomes are assessed by means of interim assignments: tests, individual and group projects and their presentation, case studies, information search and systematizing, discussions, essays, independent creative tasks, seminars, term papers, practice reports, examinations, final projects.
	Framework:
	<i>Study subjects (modules), practical training:</i>
	Study subjects (126 credits): Professional Communication, Mathematics, Physics, Website Development, Structural Programming, Databases Fundamentals, Computer Architecture, Computer Graphics, Psychology, Programming in Java, Website Technologies, Multimedia Technologies, Operating Systems, Management Fundamentals, Professional Foreign Language (English), User Interface Programming, Software Engineering, Software Architecture, Data Structures and Algorithms, Software Development, Applied Research Methodology, Agile Software Development, Computer Hardware Equipment, Quality Assurance Methods, Computer Networks, Decision Support Methods, Information Systems, Distributed Programming (A1), Advanced Databases (A2), Information Security, Big Data and Analytics Elective subjects (6 credits). Professional Practice (36 credits): Programming Practice, IT Systems Internship, Systems Design Internship, Final Internship. Final Thesis (12 credits).
	<i>Specializations:</i>
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	<i>Optional courses:</i>
	It is possible: - to select elective subjects;

		- to select alternative subjects.
		<i>Distinctive features of a study programme:</i>
		The study programme develops professional competencies related to software design, development, and integration using programming paradigms, languages, and technologies that meet market needs. Attention is paid to modern methods of analysis, design, programming, testing and support, in search of new ways of using systems and efficient data and information processing solutions for solving current professional problems in various fields.
		Access to professional activity or further study:
		<i>Access to professional activity:</i>
		Graduates will be able to work as software architects, programmers, testers, information systems administrators, analysts, quality assurance specialists, information technology consultants, information technology product, service, or project managers, and other IT experts working both individually and in a team.
		<i>Access to further study:</i>
		The graduates can continue their studies at other universities.

Name of institution: Klaipėdos valstybinė kolegija / Higher Education Institution
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Data updated: 2024-03-21