STUDY PROGRAMME DATA

No	Parameters	Data
1.	Name of a study programme	**Electrical and Automation Engineering**
2.	Qualification to be awarded, code	Professional Bachelor of Engineering Sciences, KVALLAIP00811
3.	Institution that has performed accreditation, accreditation term	Centre for Quality Assessment in Higher Education
4.	Accreditation order, term	2019-06-05, Nr. SV6-15, 2020-08-31
5.	Place of delivery of a study programme	Klaipeda State University of Applied Science, code 111968056, www.kvk.lt
6.	Summary of Profile of a Study Programme	**General Description:**
		Objective(s) of a study programme:
		The objective of Electrical and Automation engineering study programme is to prepare high-qualified competitive electrical engineers who are able to solve complex issues of technological equipment and systems, energetics, automation, modernization, energy efficiency and maintenance.
		Learning outcomes:
		The graduate of the programme: 1. Knows the general laws and laws of science and mathematics required to understand the fundamentals in the field of electrical and electronic engineering. 2. Understand the normative documents of electrotechnics, materials and elements used in electrical engineering and the theory of circuits, the principles and laws of automatic control, microcontrollers, electrical machines and gears, and technical measurements. 3. Understands the context of adjacent study fields and their solutions. 4. Is able to perform analysis of electronics and electrical engineering problems independently, to analyze engineering tasks, conditions of electrical production and operation of distribution equipment. 5. Is able to analyze the sources of engineering information by designing, modernizing, manufacturing and managing, making motivated decisions, testing and operating electrical and automation equipment. 6. Is able to design electrical networks and automated control systems using analytical methods, evaluating engineering solutions from an economic, social, environmental and human safety point of view. 7. Is able to search for professional information, use and analyze information sources in applied research independently. 8. Performs engineering experiments and processes

		their results using mathematical methods and computer hardware and presents practical results of these results. 9. Plans and coordinates installation and operation of electrical systems and automation equipment selecting and applying advanced technological and organizational measures. 10. Is able to make creative and responsible engineering decisions both independently and in a team, taking into account their impact on society and the environment, respecting professional ethics and engineering standards, informing the engineering community and the general public. 11. Is able to independently plan and organize the learning process, learn, and improve in personal and professional activities throughout life.
		Activities of teaching and learning:
		Electrical and Automation Engineering study programme is oriented to the development of generic and specialist competences and creativity: lectures, seminars, discussions, individual and group projects, practice, case studies, public presentation and defense of projects, mind-maps, problem - solving reading, writing articles, information search and systematizing, etc.
		Methods of student achievement assessment:
		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, case studies, information search and systematizing, discussions, essays, independent creative tasks, seminars, term papers, practice reports, examinations, final projects.
		Framework:
		Study subjects (modules), practical training:
		Study subjects (126 credits): Professional Communication, Professional Foreign Language, Basics of Management, Applied Research Methodology, Economics, Project Management, Physics, Mechanics, Informatics, Mathematics, Engineering and Computer Graphics, Circuit Theory, Electronics, Electrical Engineering Materials and Measurements, Environmental and Human Safety, Electrical Safety, Microprocessors, Automatic Control Theory, Electric Machines and Drives, Installation of Electrical Equipment, Enterprise Electrical Systems, Electrical Power. Specialization Control of Technological Equipment and Systems - Hydraulic and Pneumatic Systems,

		Programmable Automation Controllers, Automation of Technological Processes, Building Management Systems. Specialization Consumer Electrical Equipment and Electrical Networks – Energy in Companies, Electrical Equipment Automation Systems, Electrical Technology Equipment, Relay Protection and Microprocessor Devices. Optional subjects (6 credits). Practices (36 credits): Electrical Measurement Practice, Electrical Engineering Systems, Technological Practice, Final Practice. Graduation Paper (12 credits).
		Specializations:
		Control of Process Units and Systems; Consumer Electrical Equipment and Electrical Network.
		Optional courses:
		It is possible: - to select optional subjects; - to select alternative subjects.
		Distinctive features of a study programme:
		Electrical and Automation Engineering study programme satisfies the needs of the high technology industry sector of the Western Lithuania region, which requires wider profile specialists who are able to design, manage and operate electrical equipment, electrical networks, technological equipment, automated systems and processes.
		Access to professional activity or further study:
		Access to professional activity:
		Graduates work as electrical and automation equipment installation and service specialists, equipment control operators, designers or energetics. After acquiring experience, graduates will be able to take lead work or set up their own businesses and create jobs.
		Access to further study:
		Access to the second cycle studies upon meeting requirements set by the accepting higher education institution.

Name of institution: Klaipėda State University of Applied Sciences
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