Subject card

Subject name and code	Electronic Systems Programming, PG_00047493
Field of study	Electronics and Telecommunications

Date of commencement of studies	February 2025	Academic year of realisation of subject	2025/2026
Education level	second-cycle studies	Subject group	Optional subject group Specialty subject group Subject group related to scientific research in the field of study
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	English
Semester of study	2	ECTS credits	1.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Metrology and Optoelectronics -> Faculty of Electronics, Telecommunications and Informatics		

Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Arkadiusz Szewczyk
	Teachers	dr inż. Arkadiusz Szewczyk

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	15.0	0.0	15
	E-learning hours included: 0.0						

Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
	Number of study hours	15	2.0	8.0	25

Subject objectives	Practicing of skills of realization electronic systems comprising of electronic circuit and controlling software with appropriate interface.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_U03] can design, according to required specifications, and make a complex device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study and experience gained in the professional engineering environment	is able to design, in accordance with the given specification, and build a computer controlled device or system using appropriately selected methods, techniques, tools and materials	[SU1] Assessment of task fulfilment
	[K7_U04] can apply knowledge of programming methods and techniques as well as select and apply appropriate programming methods and tools in computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, making assessment and critical analysis of the prepared software as well as a synthesis and creative interpretation of information presented with it	is able to use his knowledge of programming methods and techniques, and select and apply appropriate programming methods and tools in creating software for computer controlled device or system	[SU4] Assessment of ability to use methods and tools

Subject contents	1. Itroduction to the subject 2. Presentation of projects 3. Project design and testing
Prerequisites and co-requisites	Base knowledge of electronic metrology

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project report	50.0%	100.0%

Recommended reading	Basic literature	Wiesław Tłaczała, "Środowisko LabVIEW w eksperymencie wspomaganym projektowo", WNT 2002
		Marcin Chruściel, "LabVIEW w praktyce", BTC 2008
	Supplementary literature	No requirements
	eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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