

Subject card

Subject name and code	Programming in LabView, PG_00062726								
Field of study	Technologies for Industry 5.0								
Date of commencement of studies	October 2025	Academic year of realisation of subject			2026/2027				
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute Of Nanotech Wydziały Politechniki	technology And Materials Engineering -> Faculty Of Applied Physics And Mathematics -> hniki Gdańskiej						nematics ->	
Name and surname	Subject supervisor		dr inż. Marek Chmielewski						
of lecturer (lecturers)	Teachers	,							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	30.0	0.0		0.0	45	
	E-learning hours inclu			<u> </u>					
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		5.0		25.0		75	
	programming system range of possible app systems from the leve The scope of possible	ent will learn the capabilities of the environment and the basics of using the graphical used in the LabVIEW language. The lecture will present, based on examples, the cations of the environment in the support and operation of research measurement of operation control to advanced post processing operations or report preparation. applications of the environment will also be presented, from simple IT systems to operating with industrial controllers. The course makes it possible to approach the m.							
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W01] demonstrates knowledge and understanding of mathematics, physics, chemistry and IT tools at the level necessary to formulate and solve typical engineering and technological problems		The student is able to independently, on the basis of his knowledge, create software to solve a problem related to the automation of the measurement process, the analysis of measurement data, a problem in any technical tasks.			[SW3] Assessment of knowledge contained in written work and projects			
	IT tools and other engineering disciplines to solve theoretical, engineering and technological problems		independently, on the basis of his			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
Subject contents	Lecture linked to workshop and laboratory activities. During the course, the student will learn the idea and capabilities of LabVIEW software. Areas in which engineering software is used will be presented. The user interface of the environment and implementations of basic software structures will be presented. The process of creating simple applications will be presented, in the form of a workshop, which will be gradually expanded to include the widest possible range of procedures and functions available in the LabVIEW environment. Advanced elements of the environment will be presented, along with the process of distributing finished applications. The range of topics applicable to the CLAD certification exam will be presented.								
Prerequisites and co-requisites	Not required								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Projects carried out in classes	100.0%	100.0%			
Recommended reading	Basic literature	Online resources provided by Natina https://www.ni.com/pdf/gettingstarte introduction_to_labview_tutorial.pdf https://learn.ni.com/pages/getting-st	d/			
		https://www.labviewmakerhub.com/doku.php? id=learn:tutorials:labview:basics				
	Supplementary literature					
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Graphical development environment Block diagram, front panel. Controls and indicators. Variable races (Races conditions) State machine algorithms					
Work placement	Not applicable					

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