



Subject card

Subject name and code	Diploma laboratory, PG_00062763						
Field of study	Technologies for Industry 5.0						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	first-cycle studies		Subject group		Optional 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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Functional Materials Engineering -> Faculty Of Electronics Telecommunications And Informatics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Piotr Jasiński				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	45.0	0.0	0.0	45
	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	45		10.0		45.0	100
Subject objectives	The aim of the subject is to acquire knowledge and practical skills necessary for the proper implementation of tasks set as part of the diploma thesis. Planning research work, identifying tools, practical conduct of research/analysis, principles and methods of analyzing results and their presentation.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_U06] performs analysis, exploration and cleaning of data sets, can use statistical models and machine learning models, integrate various analytical, management and data storage tools	The student is able to develop and analyze data sets, process data using various tools.	[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment
	[K6_K82] is equipped to participate in lectures, seminars and laboratory classes conducted in foreign language	The student is able to effectively search English-language sources for information necessary to complete the task.	[SK4] Assessment of communication skills, including language correctness
	[K6_W06] demonstrates knowledge related to data analysis and engineering, machine learning, knows the principles of integrating data with management systems to analyze complex engineering and technological problems	The student has knowledge in the field of data engineering and integrating and analyzing information obtained during the implementation of the diploma thesis	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation
	[K6_K03] effectively, clearly and unambiguously conveys information, describes activities and communicates their results and opinions of a specialist engineer using appropriate communication methods and tools	The student is able to synthetically present the results obtained at subsequent stages of the diploma thesis implementation.	[SK2] Assessment of progress of work [SK4] Assessment of communication skills, including language correctness
	[K6_U02] identifies and solves problems related to signal processing and transmission, integrates measurement and control systems, manages electronic systems in the context of intelligent production processes	The student is able to identify and solve problems encountered at successive stages of the thesis implementation	[SU4] Assessment of ability to use methods and tools
	[K6_W02] demonstrates knowledge and understanding of electronics, automation and telecommunications and systems theory, that enables identification of problems and formulation of solutions appropriate for the fourth and fifth industrial revolutions	The student is able to propose solutions related to the implementation of the thesis	[SW3] Assessment of knowledge contained in written work and projects
Subject contents	The course program includes elements of individual work by the student with the diploma project supervisor, as well as with specific research teams within the topics covered in the engineering thesis.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Evaluation of the development of the research results	50.0%	100.0%
Recommended reading	Basic literature	Textbooks and publications agreed with the teacher taking care of the thesis.	
	Supplementary literature	Textbooks and publications agreed with the teacher taking care of the thesis.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Issues consistent with the subjects of the Master's degree projects.		
Work placement	Not applicable		

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