

Subject card

Subject name and code	Diploma laboratory, PG_00062763							
Field of study	Technologies for Industry 5.0							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2026/2027		
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	Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics							
Name and surname	Subject supervisor		dr hab. inż. Jacek Ryl					
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM
of instruction	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.							

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[K6_U03] has the ability to plan, prepare and carry out engineering activities using practical knowledge and understanding of the specificity of materials, devices and tools, processes and technologies, and prepare a substantive report [K6_W03] has the ability to plan, prepare in the student is able to use the knowledge acquired during the studies to properly plan resear procedures and tools necessar for the proper implementation the diploma thesis. The student is able to use the knowledge acquired during the studies to properly plan resear procedures and tools necessar for the proper implementation the diploma thesis.	use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment [SW3] Assessment of knowledge contained in written work and projects						
	ous contained in written work and and is projects						
knowledge on materials used in industrial technologies, their structure and fabrication, knows the principles of conducting research, analyzing it and creating technical documentation characteristic features of various materials and technologies an able to select the appropriate to solve a specific research problem.	one [SW1] Assessment of factual knowledge						
[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 analyze data sets, process da using various tools.							
[K6_K82] is equipped to participate in lectures, seminars and laboratory classes conducted in foreign language The student is able to effective search English-language sour for information necessary to complete the task.							
[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 field of data engineering and integrating and analyzing information obtained during the implementation of the diplomation of the diplomation of the diplomatic thesis	contained in presentation [SW1] Assessment of factual knowledge						
[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	t communication skills, including						
	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 Subject passing criteria Passing threshold	Percentage of the final grade						
and criteria Evaluation of the development of the research results 50.0%	100.0%						
Recommended reading Basic literature Textbooks and publications agenthesis.	greed with the teacher taking care of the						
thesis.	greed with the teacher taking care of the						
eResources addresses Adresy na platformie eNaucza	eResources addresses Adresy na platformie eNauczanie:						
Example issues/ Issues consistent with the subjects of the Master's degree projects. example questions/ tasks being completed	Issues consistent with the subjects of the Master's degree projects.						
Work placement Not applicable	Not applicable						

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