

Subject card

Subject name and code	Engineering project, PG_00062750							
Field of study	Technologies for Industry 5.0							
Date of commencement of studies	October 2025		Academic year of realisation of subject			2028/2029		
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	4		Language of instruction			Polish		
Semester of study	7		ECTS credits			10.0		
Learning profile	general academic profile		Assessme	Assessment form		assessment		
Conducting unit	Katedra Fizyki Atomowej i Luminescencji -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechniki Gdańskiej							
Name and surname	Subject supervisor		dr hab. inż. Jacek Ryl					
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	120.0		0.0	120
	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	120		10.0		120.0		250
Subject objectives	The aim of the course an engineering diplor		t research, and	alysis and interp	oretation	of resu	ults, elements	s of a study for

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K6_U04] has the ability to perceive and take into account non-technical aspects (legal, economic, ethical, environmental, human factor and others) of engineering problems and tasks and create solutions that take them into account	The student is able to analyze the solution he has proposed in terms of non-technical aspects.	[SU2] Assessment of ability to analyse information				
	[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 use Industry 5.0 Technology tools, in particular selected data engineering tools, to solve practical problems.	[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task				
	[K6_K01] is aware of the need to constantly update and enrich knowledge and practical skills, and improve professional, personal and social competences	The student is aware of the continuous development of tools in the field of Industry 5.0 Technology and the need for continuous improvement	[SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice				
	[K6_K02] makes decisions independently, carries out a critical assessment of own actions and actions of managed teams, is ready to make decisions and accept responsibility for the consequences of these actions	The student acquires the ability to organize independent work, implement a project in the field of Industry 5.0 Technology and prepare a synthetic report from the conducted research/analysis.	[SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK2] Assessment of progress of work				
	[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 present a synthetic description of the implemented project, the results obtained, the possibilities of implementing the solution, advantages and limitations.	[SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice				
Subject contents	The content of the course is individually selected for each student (depending on the chosen thesis topic)						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	diploma thesis	60.0%	100.0%				
Recommended reading	Basic literature	original research articles, monogaphs and textbooks					
	Supplementary literature	Review articles					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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