

## Subject card

Subject name and code	Group project I, PG_00062773									
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			English				
Semester of study	5		ECTS credits			8.0				
Learning profile	general academic profile		Assessment form			assessment				
Conducting unit	Division Of Electrochemistry And Surface Physical Chemistry -> Institute Of Nanotechnology A Engineering -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechniki Gdańskie					And Materials iej				
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	100.0		0.0	100		
	E-learning hours included: 0.0									
Learning activity and number of study hours	Learning activity	Participation in classes include plan				Self-study		SUM		
	Number of study hours	100		10.0		90.0		200		
Subject objectives	After this course Student has a broad knowledge of the issues, which concerns about the project. Student has the ability of organization and planning group tasks. The student gains the ability to cooperate with others and acquire interpersonal communication skills. The student acquires the skills associated with the preparation of the technical documentation of the project. Student is able to define the purpose and objectives of the planned activities and can arrange a schedule sentences.									
Learning outcomes	Course outcome		Subject outcome			Method of verification				
	[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 is able to identify and make decisions necessary to solve a practical problem.			[SK1] Assessment of group work skills [SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice				
			The student is able to analyze the entire environment in which the research problem presented for implementation occurs and take into account its specificity in the proposed solution.			[SU2] Assessment of ability to analyse information				
	[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 function within a group, communicate the results of his/her work, and obtain missing technical information.			[SK1] Assessment of group work skills [SK3] Assessment of ability to organize work				
	[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		The student is able to organize his/ her work and solve given problems using acquired tools and methods characteristic for Industry 5.0 Technology			[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject				

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Subject contents	Introduction to problem solving in groups. Clear definition of the problem to be solved, its location in the surrounding technical environment and expected results. Discussion of the principles of working in a group, e.g. assigning roles and responsibilities and establishing the principles of communication and cooperation and ways of obtaining missing information. Discussion of the role of non-technical aspects and constraints, e.g. legal or economic.  Preparation of a project schedule. Identification, implementation and implementation of the solution for the posed problem. Conducting tests and correcting any errors. Preparation of a final report / user manual / project description. Demonstration.						
Prerequisites and co-requisites	Knowledge of data engineering, programming basics, and basic physics, chemistry, and electronics						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Project submission	60.0%	100.0%				
Recommended reading	Basic literature	Depending on the given research problem					
Ů	Supplementary literature	-					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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