

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	, PG_00065832								
Field of study	Materials Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group			Specialty 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	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Corros	sion and Electro	ochemistry -> Faculty of Chemistry						
Name and surname	Subject supervisor		dr hab. inż. Stefan Krakowiak						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	ry Project		Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	0.0	0.0 30.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic ed in study	Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		4.0		41.0		75	
Subject objectives	Teaching students how to prepare a technological project of anti-corrosion protection and select construction materials.								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[K7_W05] Knows methods, techniques, tools and materials for solving complex engineering tasks relevant to materials engineering.		The student presents a project for corrosion protection of an industrial facility indicated by the instructor.			[SW1] Assessment of factual knowledge			
	[K7_U04] Can undertake a detailed analysis of the obtained results and develop a technical report or presentation, also in English.		The student defines the environmental hazards of an industrial structure. The student identifies the types of corrosion occurring in a given corrosive environment.			[SU3] Assessment of ability to use knowledge gained from the subject			
	[K7_W04] Has enhanced knowledge of materials sciences, within the scope required for describing and understanding the correlation between the chemical composition, structure and mechanical and physical properties.		The student defines the environmental hazards of an industrial structure. The student identifies the types of corrosion occurring in a given corrosive environment.			[SW1] Assessment of factual knowledge			
[K7_K02] Is aware of the importance of non-technical aspects and effects of engineering, including the influence on the environment an resulting responsibility for the decisions.		f the cchnical of g the ronment and ty for the	The student collaborates with the team to solve design problems.			[SK1] Assessment of group work skills [SK4] Assessment of communication skills, including language correctness			
Subject contents	Technical documentation of the project. Pre-design corrosion measurements. Technical description of the project. Consistency of the structural and technical design and the anti-corrosion protection design. Conditions for the implementation of corrosion protection. Supervision system and conditions for acceptance of works.								
Prerequisites and co-requisites	Fundamentals of coating protection against corrosion, resistance of materials to corrosion in aggressive environments								

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Project 2 completion	100.0%	30.0%			
	Project 1 completion	100.0%	70.0%			
Recommended reading	Basic literature	on e-learning				
	Supplementary literature	on e-learning				
	eResources addresses	Podstawowe				
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=5506 - They will appear when the item is opened.				
		Uzupełniające				
		Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	- Protection against corrosion of mooring dolphins / Gdańsk Bay / Naftoport- Selection of construction material for a sulfuric acid tank containing 3000 ppm NaCl, acid concentration 58-76%					
Work placement	Not applicable					

Document generated electronically. Does not require a seal or signature.