



Subject card

Subject name and code	CORROSION INHIBITORS, PG_00064349						
Field of study	Corrosion						
Date of commencement of studies	February 2027		Academic year of realisation of subject		2026/2027		
Education level	second-cycle studies		Subject group		Obligatory subject group in the field of study Specialty subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery		blended-learning		
Year of study	1		Language of instruction		Polish		
Semester of study	1		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Corrosion and Electrochemistry -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Stefan Krakowiak				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	15.0	30
	E-learning hours included: 15.0						
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	30		5.0		15.0	50
Subject objectives	Teaching students the possibility of using corrosion inhibitors as corrosion protection technology.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_W05] recognises key developments in research, apparatus and technology in corrosion and material degradation and related fields		The student is able to select methods for assessing inhibitor effectiveness depending on the operating conditions of the installation and, on this basis, assess the accuracy of the selection of corrosion protection technology.		[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects		
	[K7_U02] conducts experiments using properly selected techniques and apparatus, taking advantage of new developments in corrosion and related fields		The student is able to assess the accuracy of the selection of corrosion reduction technology in laboratory conditions using electrochemical and spectroscopic methods. Selects methods for monitoring the effect of inhibitors in real conditions.		[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
	[K7_K03] can interact and work in a group, undertaking various roles within it		The student is able to plan work related to the selection of corrosion protection technologies and also cooperates in their selection.		[SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	Course content – lecture Basics of corrosion protection. Corrosion inhibitors. Effectiveness of corrosion inhibitors. Temporary protection. Voltaile corrosion inhibitors.						
Prerequisites and co-requisites	Knowledge of the fundamentals of corrosion and corrosion protection.						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Presentation of a multimedia presentation.	100.0%	30.0%
	Passing the lecture.	60.0%	70.0%
Recommended reading	Basic literature	S. Szklarska Smialowska, Corrosion inhibitors of metala, PWN, Warszawa, 1971	
	Supplementary literature	available on e-learning.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Atmospheric corrosion. Classification of corrosion inhibitors. Temporary protection. Copper corrosion inhibitors.		
Practical activites within the subject	Not applicable		

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