

Subject card

Subject name and code	CORROSION INHIBITORS, PG_00064349								
Field of study	INHIBITORY KOROZJI								
Date of commencement of	February 2026		Academic year of			2025/2026			
studies			realisation of subject						
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			at the university			
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	Subject supervisor		dr hab. inż. Stefan Krakowiak						
of lecturer (lecturers)	Teachers								
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	0.0		15.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM		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 out	Subject outcome			Method of verification				
	[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.			[SK5] Ocena umiejętności rozwiązywania problemów występujących w praktyce [SK4] Ocena umiejętności komunikacji, w tym poprawności językowej			
	[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.			[SU4] Ocena umiejętności korzystania z metod i narzędzi [SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu [SU2] Ocena umiejętności analizy informacji			
	[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.			[SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym [SW1] Ocena wiedzy faktograficznej			
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		
	Passing the lecture.	60.0%	70.0%		
	Presentation of a multimedia presentation.	100.0%	30.0%		
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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