GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	CORROSION INHIBITORS, PG_00064349		
Field of study	Corrosion		
Date of commencement of studies	February 2025	Academic year of realisation of subject	2024/2025
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		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Stefan Krakowiak	
	Teachers	dr hab. inż. Stefan Krakowiak	

Lesson types and methods of instruction

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: 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	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

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	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Atmospheric corrosion. Classification of corrosion inhibitors. Temporary protection. Copper corrosion inhibitors.	
Work placement	Not applicable	

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