GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00052344		
Field of study	Chemical Technology		
Date of commencement of studies	October 2021	Academic year of realisation of subject	2024/2025
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	4	Language of instruction	Polish
Semester of study	7	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Electrochemistry, Corrosion and Materials Engineering -> Faculty of Chemistry		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Kazimierz Darowicki	
	Teachers	prof. dr hab. inż. Kazimierz Darowicki	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	45.0	0.0	0.0	45

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	45	5.0	25.0	75

Subject objectives

Selection of corrosion protection techniques depending on the operating conditions of the structure.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K6_W07	The student has knowledge about construction materials used in the chemical industry and their corrosion, monitoring and protection against corrosion, and corrosion measurement.	[SW3] Assessment of knowledge contained in written work and projects
K6_U08	The student is able to select appropriate corrosion protection techniques depending on the operating conditions of the structure.	[SU3] Assessment of ability to use knowledge gained from the subject

Subject contents

Laboratory exercises: 1. Testing the ingredients of paints and varnishes. 2. Testing of paint products 3. Testing of paint coatings and polymer linings 4. Effectiveness of corrosion inhibitors 5. Temporary protection measures 6. Cathodic protection of steel 7. Anodic protection of stainless steel 8. Resistance of construction materials in various environments 9. Corrosion monitoring.

Prerequisites and co-requisites

Knowledge of the basics of corrosion.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Final assessment	60.0%	100.0%

Recommended reading

Basic literature	http://eteaching
Supplementary literature	There are no requirements.
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed

Coating, inhibitor and cathodic protection. Selection of construction materials. Corrosion monitoring.

Work placement

Not applicable