

## Subject card

Subject name and code	, PG_00052341							
Field of study	Chemical Technology							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024		
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	3		Language of instruction			Polish		
Semester of study	6		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Electrochemistry, Corrosion and Materials Engineering -> Faculty of Chemistry							
Name and surname	Subject supervisor	prof. dr hab. inż. Kazimierz Darowicki						
of lecturer (lecturers)	Teachers		prof. dr hab. inż. Kazimierz Darowick			ki		
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	30.0	0.0	0.0	0.0		0.0	30
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM			
	Number of study hours	30		2.0		18.0		50
Subject objectives	The aim of the course is to familiarize students with the topic of corrosion protection							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K6_W07		Selection of corrosion protection techniques depending on the operating conditions of the structure.			[SW3] Assessment of knowledge contained in written work and projects		
	K6_U08		corrosion protection.			[SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	Lecture: - Coating protection: types of coatings, application methods, control methods Cathodic and anodic protection Inhibitor protection: division of corrosion inhibitors, application Selection of construction materials: an overview of modern construction materials used in industrial installations Corrosion monitoring. Laboratory exercises: 1. Tests of paint and varnish components 2. Tests of paint products 3. Tests of paint coatings and polymer linings4. Efficiency of corrosion inhibitors 5. Temporal protection agents 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			
	lab				50.0%			
	lecture		60.0%			50.0%		

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Recommended reading	Basic literature	Cathodic Corrosion Protection Systems: A Guide for Oil and Gas Industries 1st Edition			
		Protective Coatings Film Formation and Properties			
		Corrosion Inhibitors			
	Supplementary literature	There are no requirements.			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Coating protection, inhibitory and cathodic. Selection of construction materials. Corrosion monitoring.				
Work placement	Not applicable				

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