



## 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						
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		<a href="http://eteaching">http://eteaching</a>				
	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						