



## Subject card

Subject name and code	, PG_00039725						
Field of study	Materials Engineering, Materials Engineering, Materials Engineering						
Date of commencement of studies	October 2022		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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		6.0		
Learning profile	general academic profile		Assessment form		exam		
Conducting unit	Department of Corrosion and Electrochemistry -> 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	45.0	0.0	30.0	0.0	0.0	75
	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	75		5.0		70.0	150
Subject objectives	protection against corrosion of basic construction materials						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_W04		the student knows the basic research techniques in protection against corrosion		[SW1] Assessment of factual knowledge		
	K6_W06		the student has basic knowledge of corrosion protection		[SW1] Assessment of factual knowledge		
	K6_U03		the student understands the impact of corrosion on the environmen		[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools		
	K6_K01		the student is able to work in a team		[SK1] Assessment of group work skills		
	K6_U01		the student is able to work in a team		[SU4] Assessment of ability to use methods and tools		
Subject contents	Lecture: -Coating protection: coatings types, application methods, control methods. -Cathodic and anodic protection. -Inhibitor protection: types and application of corrosion inhibitors. -Construction materials choice: modern industry construction materials review. -Corrosion monitoring. Laboratory: 1.Examination of paints and lacquers components. 2.Examination of paint products. 3.Examination of paint coatings and polymer linings. 4.Corrosion inhibitors efficiency. 5.Temporary protectives. 6.Cathodic protection of steel. 7.Anodic protection of stainless steels. 8.Corrosion resistance of construction materials in variuos environments. 9.Corrosion monitoring.						
Prerequisites and co-requisites	Knowledge of corrosion basics.						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Lab		60.0%		50.0%		
	Lecture		60.0%		50.0%		
Recommended reading	Basic literature		<a href="http://www.korozja.pl">http://www.korozja.pl</a>				
	Supplementary literature		No requirements				
	eResources addresses		Adresy na platformie eNauczanie:				

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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