



Subject card

Subject name and code	Corrosion Monitoring and NDT, PG_00048914						
Field of study	Chemistry in Construction Engineering						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Corrosion and Electrochemistry -> Faculty of Chemistry -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Juliusz Orlikowski				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0	0.0	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		40.0	75
Subject objectives	Mastering the theoretical and practical basis for the nondestructive testing and corrosion monitoring						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_U04		Ability to use NDT measurement methods to apply various defects		[SU1] Assessment of task fulfilment		
	K6_W08		Ability to apply appropriate corrosion monitoring techniques to obtain optimal measurement results		[SW1] Assessment of factual knowledge		
Subject contents	Nondestructive testing: visual methods magnetic particle testing radiographic testing acoustic emission Corrosion monitoring: linear polarization method electric resistance method coupon method electrochemical noise						
Prerequisites and co-requisites	Knowledge of electrochemistry and measurements of resistance						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Written exam		60.0%		50.0%		
	Practical exercise		60.0%		50.0%		
Recommended reading	Basic literature		G. Wranglen – podstawy korozji i ochrony metali. WNT, Warszawa 1975				
			H.H. Uhlig – Ochrona przed korozją, WNT, Warszawa 1976				
	Supplementary literature		See: www.korozja.pl				
	eResources addresses						
Example issues/ example questions/ tasks being completed	Theoretical and practical aspects of diagnosis of corrosion and corrosion monitoring						
Work placement	Not applicable						

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