



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	6	ECTS credits		3.0								
Learning profile	general academic profile	Assessment form		assessment								
Conducting unit	Department of Corrosion and Electrochemistry -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology											
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Juliusz Orlikowski										
	Teachers	prof. dr hab. inż. Juliusz Orlikowski										
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar						
	Number of study hours	15.0	0.0	15.0	0.0	0.0						
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 knowledge of nondestructive testing and corrosion monitoring											
Learning outcomes	Course outcome		Subject outcome		Method of verification							
	K6_U04		The student knows the techniques of corrosion monitoring		[SU1] Assessment of task fulfilment							
	K6_W08		The student knows the methods of non-destructive methods of testing		[SW1] Assessment of factual knowledge							
Subject contents	Course content – lecture 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							
	Practical exercises		60.0%		100.0%							
Recommended reading	Basic literature		G. Wranglen podstawy korozji i ochrony metali. WNT, Warszawa 1075 H.H. Uhlig Ochrona przed korozją, WNT, Warszawa 1976									
	Supplementary literature		H.H. Uhlig Ochrona przed korozją, WNT, Warszawa 1976									
	eResources addresses		See: www.korozja.pl									
Example issues/ example questions/ tasks being completed	NDT techniques used in diagnostics Corrosion monitoring methods used in industry											
Practical activites within the subject	Not applicable											

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