



## Subject card

Subject name and code	, PG_00048717						
Field of study	Materials Engineering, Materials Engineering, Materials Engineering						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2025/2026		
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		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Corrosion and Electrochemistry -> Faculty of Chemistry						
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	30.0	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		2.0		10.0	57
Subject objectives	Mastering knowledge of nondestructive testing and corrosion monitoring						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_U06		Preparation of reports on activities		[SU1] Assessment of task fulfilment		
	K6_K01		Raising professional qualifications		[SK2] Assessment of progress of work		
	K6_W07		Knowledge necessary in NDT techniques		[SW1] Assessment of factual knowledge		
	K6_W04		Knowledge to corrosion monitoring		[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		
	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  H.H. Uhlig Ochrona przed korozją, WNT, Warszawa 1976				
	Supplementary literature		See: <a href="http://www.korozja.pl">www.korozja.pl</a>				
	eResources addresses		Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	NDT techniques used in diagnosticsCorrosion monitoring methods used in industry						

Work placement	Not applicable
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