

## 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 Electro	rrosion and Materials Engineering -> I			Faculty of Chemistry				
Name and surname	Subject supervisor		prof. dr hab. inż. Juliusz Orlikowski						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	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 classes include plan			Participation in consultation hours		Self-study SUM		SUM	
	Number of study hours	· I		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			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: www.korozja.pl						
	eResources addresses Adresy na platformie eNauczanie:								
Example issues/ example questions/ tasks being completed	NDT techniques used in diagnosticsCorrosion monitoring methods used in industry								

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Work placement	Not applicable

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