

## Subject card

Cubicat name and sade	Correction Monitoring and NDT DC 00049014							
Subject name and code	Corrosion Monitoring and NDT, PG_00048914							
Field of study	Chemistry in Construction Engineering							
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023		
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 Electrochemistry, Corrosion and Materials Engineering -> Faculty of Chemistry							
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Juliusz Orlikowski					
	Teachers	prof. dr hab. inż. Juliusz Orlikowski						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	roject Sem		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 classes include 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 nodestructive testing and corrosion monitoring							
Learning outcomes	Course outcome Subject outcome Method of verification							
	K6_W08		Ability to apply appropriate corrosion monitoring techniques to obtain optimal measurement results			[SW1] Assessment of factual knowledge		
	K6_U04					[SU1] Assessment of task fulfilment		
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 exercise		60.0%		50.0%			
	Written exam		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 Adresy na platformie eNauczanie:							
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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