

Subject card

Subject name and code	, PG_00058702							
Field of study	Materials Engineering, Materials Engineering, Materials Engineering							
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024		
Education level	second-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	1		Language of instruction			Polish		
Semester of study	2		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Electrochemistry, Co		rrosion and Materials Engineering ->			Faculty of Chemistry		
Name and surname	Subject supervisor		dr hab. inż. Krzysztof Żakowski					
of lecturer (lecturers)	Teachers		dr hab. inż. Krzysztof Żakowski					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory Project		t	Seminar	SUM
of instruction	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
	Number of study hours	45		5.0		50.0		100
Subject objectives	Teaching the principles of performing coating tests. Teaching the principles of designing simple cathodic protection installations.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K7_U04		The student is able to perform simple design calculations for cathodic protection installations.		[SU3] Assessment of ability to use knowledge gained from the subject			
	K7_W04		The student has structured knowledge of materials science.		[SW1] Assessment of factual knowledge			
	K7_U01		The student is able to select construction materials.		[SU2] Assessment of ability to analyse information			
	K7_W01		The student has extended knowledge in the field of materials engineering.		[SW1] Assessment of factual knowledge			
Subject contents	Destructive and non-destructive tests of coatings. Designing a cathodic protection system for an underground pipeline.							
Prerequisites and co-requisites								
Assessment methods and criteria	Subject passing criteria design		Passing threshold 60.0%		Percentage of the final grade 50.0%			
	test		60.0%		50.0%			
Recommended reading	Basic literature Teaching materials of the department.							
	Supplementary literature		not applicable					

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	eResources addresses	Adresy na platformie eNauczanie: Materiały i Technologie 2 - Moodle ID: 12681 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=12681		
Example issues/ example questions/ tasks being completed	Measurement of coating thickness. Ionic impurities. Climatic conditions. Calculations of the protective range of cathodic protection stations. Calculations of the pipeline's demand for cathodic protection current.			
Work placement	Not applicable			

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