

Subject card

Subject name and code	Inspection of cathodic protection systems, PG 00048981								
Field of study	Corrosion								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study			
						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	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Electrochemistry, Corrosion and Materials Engineering -> Faculty of Chemistry								
Name and surname	Subject supervisor		dr hab. inż. Kr	r hab. inż. Krzysztof Żakowski					
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec			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	
	Number of study hours	45		5.0		25.0		75	
Subject objectives	Mastering the basic measurement methods used during the operation of cathodic protection systems.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K7_U05		Student is able to evaluate the effectiveness of the cathodic protection of metal structures.			[SU2] Assessment of ability to analyse information			
	K7_W02		Student knows the technologies for implementing cathodic protection of underground and underwater structures.			[SW1] Assessment of factual knowledge			
	K7_K02		Student cooperates in a group, is able to organize work.			[SK3] Assessment of ability to organize work [SK1] Assessment of group work skills			
	K7_U02		Student is prepared for self- education in order to improve their qualifications.			[SU3] Assessment of ability to use knowledge gained from the subject			
	K7_W03		Student knows the methods for assessing the effectiveness of cathodic protection.			[SW1] Assessment of factual knowledge			
Subject contents	Measurement of the ON and OFF-potential.Measurement of the output paragmeters of the cathodic protection station.Measurement of anode system resistance.Measurement of current flowing through the pipeline.Location of underground pipelines.Location of underground pipeline insulation defects.								
Prerequisites and co-requisites	General knowledge of electrical engineering. Basic knowledge of cathodic protection.								
Assessment methods and criteria	Subject passing criteria		Pass	Passing threshold			Percentage of the final grade		
	test		60.0%		50.0%				
	laboratory					50.0%			
Recommended reading	Basic literature		not applicable						
	Supplementary literature eResources addresses		not applicable	not applicable Adresy na platformie eNauczanie:					
	enesources addresse	55	Adresy na pla	attormie eNauc	zanie:				

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	Measurement of the OFF-potential of underground tank.Measurement of the cathodic protection current.Measurement of anode system resistance.Location of underground gas pipeline.
Work placement	Not applicable

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