

Subject card

Subject name and code	INSPECTION OF CATHODIC PROTECTION SYSTEMS, PG_00064363								
Field of study	INSPEKCJA SYSTEMÓW OCHRONY KATODOWEJ								
Date of commencement of	February 2025 Academic year of 2025/2026								
studies	. 52.361, 2020		realisation of subject			2023/2020			
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study			
						Specialty 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 Corros	nt of Corrosion and Electrochemistry -> Faculty of Chemistry -> Wydziały Politechniki Gdańskiej					iki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Krzysztof Żakowski						
	Teachers dr hab. inż. Krzysztof Żakowski								
Lesson types	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 inclu	ıded: 0.0			•			'	
	eNauczanie source address: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24458								
	Moodle ID: 24458 Inspekcja systemów ochrony katodowej 2025/26 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24458								
Learning activity and number of study hours	Learning activity Participation ir classes include plan					Self-study		SUM	
	Number of study hours	45		10.0				100	
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_U07] includes ethical issues and regulations in research planning and design of products and processes		Student is able to make responsible decisions in their research work.			[SU2] Ocena umiejętności analizy informacji			
	[K7_U04] predicts the properties of the materials obtained and the processes involving them, based on knowledge of corrosion and related fields					[SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu			
	[K7_K02] understands the non- technical aspects and implications of graduate activity, including the impact on the environment		The student understands that an engineer's actions can have a positive impact on the natural environment.			[SK5] Ocena umiejętności rozwiązywania problemów występujących w praktyce			
	[K7_W06] integrates knowledge from different disciplines, principles of intellectual property protection and patent law, relevant for appropriate interpretation and application in scientific, sustainable economic activities		Student knows the technologies for implementing cathodic protection of underground and underwater structures.			[SW1] Ocena wiedzy faktograficznej			
Subject contents	 Measurement of the ON and OFF-potential. Measurement of the output paraqmeters 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	Passing threshold	Percentage of the final grade				
	laboratory	60.0%	50.0%				
	test	60.0%	50.0%				
Recommended reading	Basic literature	not applicable					
	Supplementary literature	not applicable					
	eResources addresses						
Example issues/ example questions/ tasks being completed	Measurement of the OFF-potential of underground tank. Measurement of the cathodic protection current. Measurement of anode system resistance. Location of underground gas pipeline.						
Practical activites within the subject	Not applicable						

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