

## Subject card

Subject name and code	CORROSION IN PETROCHEMICAL INDUSTRY, PG_00064359								
Field of study	Corrosion								
Date of commencement of									
studies			Academic year of realisation of subject			2025/2026			
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			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Corrosion and Electrochemistr			emistry -> Faculty of Chemistry -> Wydziały Politechniki Gdańskiej					
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Juliusz Orlikowski						
	Teachers	prof. dr hab. i	ikowski						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	E-learning hours inclu	uded: 0.0	Į.		1			•	
	eNauczanie source addresses:								
	Moodle ID: 1133 Korozja w Przemyśle Petrochemicznym https://enauczanie.pg.edu.pl/moodle/course/view.php?id=1133								
Learning activity and number of study hours		Participation i classes includ plan				Self-study		SUM	
	Number of study hours	30		2.0		18.0		50	
Subject objectives	Familiarization with corrosion mechanisms in the refining industry								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
5	[K7_W05] recognises key developments in research, apparatus and technology in corrosion and material degradation and related fields		Skills in obtaining the necessary data for the assessment of corrosion phenomena			[SW1] Assessment of factual knowledge			
	[K7_U01] designs experiments using computer methods of data analysis, computer simulation and based on the state-of-the-art in knowledge of in accordance with the most recent scientific literature					[SU1] Assessment of task fulfilment			
	[K7_K01] critically evaluates the content of scientific and practical problems		Ability to recognize corrosion mechanisms depending on technological conditions and construction materials used			[SK2] Assessment of progress of work			
Subject contents	Presentation of all the basic mechanisms of corrosion and degradation in the refining industry. Discussion of technological factors influencing corrosion risk. Presentation of risk analysis methodology in accordance with API 571 and API 581. Determination of aggressiveness parameters of the corrosive environment.								
Prerequisites and co-requisites	Basics of corrosion, basics of chemical engineering								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Final exam		60.0%			100.0%			
Recommended reading	Basic literature		API RBi standard 571, 581						
	Supplementary literature		There is no requirement						

	eResources addresses	Supplementary https://enauczanie.pg.edu.pl/moodle/course/view.php?id=1133 - Access to the digital version of the course		
Example issues/ example questions/ tasks being completed	Corrosion Mechanisms in the Refining Industry Conditions of Their Occurrence Hazardous Materials			
Work placement	Not applicable			

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