

Subject card

Subject name and code	CORROSION IN PETROCHEMICAL INDUSTRY, PG_00064359							
Field of study	KOROZJA W PRZEMYŚLE PETROCHEMICZNYM							
Date of commencement of studies	February 2026		Academic year of realisation of subject			2026/2027		
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 Electrochemistry -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology						University of	
Name and surname	Subject supervisor	prof. dr hab. inż. Juliusz Orlikowski						
of lecturer (lecturers)	Teachers					<u> </u>		
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Projec			SUM
	Number of study hours	15.0	0.0	15.0	0.0		0.0	30
	E-learning hours inclu			I=		I		1
Learning activity and number of study hours	Learning activity Participation in classes including plan				Self-study SUM			
	Number of study 30 hours		2.0		18.0		50	
Subject objectives	Familiarization with c	orrosion mecha	anisms in the re	efining industry				•
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[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] Ocena postępów pracy		
	[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		Ability to simulate the composition of process streams using the AspenTech software package			[SU1] Ocena realizacji zadania		
	[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] Ocena wiedzy faktograficznej		
Subject contents	Course content – lecture 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, b	pasics of chemi	cal engineering	9	_	_		
Assessment methods and criteria	Subject passing criteria Final exam		Passing threshold 60.0%		Percentage of the final grade 100.0%			
Recommended reading	Basic literature		API RBi standard 571, 581					
	Supplementary literature		There is no requirement					
		eResources addresses						

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	Corrosion Mechanisms in the Refining Industry Conditions of Their Occurrence Hazardous Materials
Practical activites within the subject	Not applicable

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