

Subject card

Subject name and code	CORROSION MONITORING, PG_00064360							
Field of study	MONITOROWANIE KOROZJI							
Date of commencement of	February 2026		Academic year of			2026/2027		
studies	,		realisation of subject					
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 Corrosion and Electrochemistry -> Faculty of Chemistry -> Faculties of Gdańsk Universit Technology					University of		
Name and surname	Subject supervisor		prof. dr hab. inż. Juliusz Orlikowski					
of lecturer (lecturers)	Teachers							
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 included: 0.0							•
Learning activity and number of study hours	Learning activity	ing activity Participation in classes included				Self-study SUM		
	Number of study hours	er of study 45		10.0		45.0		100
Subject objectives	The aim of the course is to present issues from corrosion monitoring and risk analysis							
Learning outcomes	Course out	Subject outcome			Method of verification			
	[K7_K01] critically evaluates the content of scientific and practical problems		Ability to determine the applicability of individual measurement methods in the refinery industry			[SK2] Ocena postępów pracy		
	[K7_W05] recognises key developments in research, apparatus and technology in corrosion and material degradation and related fields		Market knowledge of corrosion monitoring system manufacturers			[SW1] Ocena wiedzy faktograficznej		
	[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 use NDT methods and corrosion monitoring depending on the type of corrosion hazard			[SU1] Ocena realizacji zadania		
	[K7_U09] prepares documentation of experiments using professional terminology		Ability to understand P&D and PFD diagrams			[SU1] Ocena realizacji zadania		
Subject contents	Course content – lecture Przedstawienie budowy i funkcjonowania podstawowych instalacji rafineryjnych. Opis procesów technologicznych oraz ich wpływ na korozję. Przedstawienie technik monitorowania metodą FSM, ultradźwiękową. Analiza grupowa RBI.							
Prerequisites and co-requisites	Basic knowledge of Chemical Engineering and the basis of corrosion							
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade			
and criteria	Final Exam		60.0%		100.0%			
	Basic literature	1			RBI Risk Base Inspection API RBI 571, 580, 581			

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	Supplementary literature	There is no requirement.			
Example issues/ example questions/	eResources addresses				
tasks being completed	Corrosion Monitoring Techniques NDT Inspection Techniques Determining the Degradation Level of Structural Materials				
Practical activites within the subject	Not applicable				

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