

Subject card

Subject name and code	CORROSION MONITORING, PG_00064360							
Field of study	Corrosion							
Date of commencement of studies	February 2025		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			4.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Corros	ochemistry -> F	mistry ->	Wydziały Politechniki Gdańskiej				
Name and surname	Subject supervisor		prof. dr hab. inż. Juliusz Orlikowski					
of lecturer (lecturers)	Teachers prof. dr hab. inż. Juliusz Orlikowski							
Lesson types and methods of instruction	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 eNauczanie source addresses: Moodle ID: 1097 Monitorowanie korozji https://enauczanie.pg.edu.pl/moodle/course/view.php?id=1097							
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		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 outcome		Subject outcome			Method of verification		
	[K7_U09] prepares documentation of experiments using professional terminology		Ability to understand P&D and PFD diagrams			[SU1] Assessment of task fulfilment		
	[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] Assessment of task fulfilment		
	[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] Assessment of factual knowledge		
	[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] Assessment of progress of work		
Subject contents	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 passin	Pass	ing threshold		Per	Percentage of the final grade		
and criteria	Final Exam	60.0%			100.09	100.0%		

Decemmended reading	Basic literature	RBI Risk Base Inspection API RBI 571, 580, 581				
Recommended reading	Dasic literature	The risk base inspection AFT her 371, 300, 301				
	Supplementary literature	There is no requirement.				
	eResources addresses	Basic				
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=1097 - Access to the digital version of the course				
Example issues/ example questions/ tasks being completed	Corrosion Monitoring Techniques NDT Inspection Techniques Determining the Degradation Level of Structural Materials					
Work placement	Not applicable					

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