



Subject card

Subject name and code	Corrosion monitoring, PG_00048988						
Field of study	Corrosion						
Date of commencement of studies	February 2024	Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies	Subject group			Obligatory subject group in the field of study 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 Electrochemistry, Corrosion and Materials Engineering -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Juliusz Orlikowski				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	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	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	45		5.0		50.0	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_U05		The aim of monitoring and risk analysis		[SU1] Assessment of task fulfilment		
	K7_U04		Analysis of corrosion mechanisms under RBI		[SU1] Assessment of task fulfilment		
	K7_W04		Analysis of the installation data and the composition of process streams in terms of corrosion risk		[SW1] Assessment of factual knowledge		
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 and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Final Exam		60.0%		100.0%		
Recommended reading	Basic literature		RBI Risk Base Inspection API RBI 571, 580, 581				
	Supplementary literature		There is no requirement.				
	eResources addresses						
			Adresy na platformie eNauczanie:				

Example issues/ example questions/ tasks being completed	Corrosion monitoring techniques Methods of risk analysis Technological processes in refineries
Work placement	Not applicable