

Subject card

Subject name and code	Corrosion protection of industrial installations and Risk Based Inspection(RBI), PG_00048867								
Field of study	Engineering and Technologies of Energy Carriers								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026			
Education level	vel second-cycle studies		Subject group			Obligatory subject group in the field of study			
						Subject group related to practical vocational preparation			
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	practical profile		Assessment form			assessment			
Conducting unit	Department of Electrochemistry, Corrosion and Materials Engineering -> Faculty of Chemistry								
Name and surname	Subject supervisor		prof. dr hab. inż. Juliusz Orlikowski						
of lecturer (lecturers)	Teachers								
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	15.0		0.0	60	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-st	udy	SUM	
	Number of study hours	60		10.0		30.0		100	
Subject objectives	Theory of corrosion in the refinery. Knowledge of the API 571 and 581 Standards and correct identyfication of corrosion mechanism in the materials degradation cards.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K7_W08		student is able to design a technological process, choose construction materials			[SW1] Assessment of factual knowledge			
	K7_U01		Theory of corrosion in the refinery. Knowledge of the API 571 and 581 Standards and correct identyfication of corrosion mechanism in the materials degradation cards.			[SU5] Assessment of ability to present the results of task			
	K7_W11		student understands the impact of corrosion on the environment			[SW1] Assessment of factual knowledge			
	K7_U04		Theory of corrosion in the refinery. Knowledge of the API 571 and 581 Standards and correct identyfication of corrosion mechanism in the materials degradation cards.			[SU1] Assessment of task fulfilment			
Subject contents	Theoretical knowledge of crude oil refination technology, corrosion processes and construction materials.								
	Practical skills of various corrosion mechanisms identyfication and basic techniques of corrosion monitoring applied in refinery.								
	Project based on creation of degradation cards for the atmospheric distillation unit based on chemistry of the stream, working temperatures, construction materials etc.								
Prerequisites and co-requisites	Chemistry and chemical engineering								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	exam	60.0%	70.0%		
	project	70.0%	30.0%		
Recommended reading	Basic literature	API 571 API 581			
	Supplementary literature	none			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	List the corrosion mechanisms of corrosion - high temperature List the corrosion mechanisms causing structural degradation In which refinery units there is a metal dusting mechanism				
Work placement	Not applicable				

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