

## 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	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 Electr	Department of Electrochemistry, Corrosion and Materials Engineering -> Faculty of Chemistry						
Name and surname	Subject supervisor	nż. Juliusz Orlikowski						
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	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 i classes include plan		Participation in consultation hours		Self-study		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			[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, corrosi							d constructio	n 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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