GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Corrosion monitoring, PG_00048988		
Field of study	Corrosion		
Date of commencement of studies	February 2023	Academic year of realisation of subject	2023/2024
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	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_W04	Analysis of the installation data and the composition of process streams in terms of corrosion risk	[SW1] Assessment of factual knowledge
K7_U04	Analysis of corrosion mechanisms under RBI	[SU1] Assessment of task fulfilment
K7_U05	The aim of monitoring and risk analysis	[SU1] Assessment of task fulfilment

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	

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