GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Corrosion Monitoring and NDT, PG_00048914		
Field of study	Chemistry in Construction Engineering		
Date of commencement of studies	October 2020	Academic year of realisation of subject	2021/2022
Education level	first-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	2	Language of instruction	Polish
Semester of study	4	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
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	prof. dr hab. inż. Juliusz Orlikowski dr hab. inż. Michał Szociński dr inż. Kacper Jurak	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	15.0	0.0	0.0	30

E-learning hours included: 0.0

Adresy na platformie eNauczanie:

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	30	5.0	40.0	75

Subject objectives

Mastering knowledge of nondestructive testing and corrosion monitoring

Learning outcomes

Course outcome	Subject outcome	Method of verification
K6_W08	The student knows the methods of non-destructive methods of testing	[SW1] Assessment of factual knowledge
K6_U04	The student knows the techniques of corrosion monitoring	[SU1] Assessment of task fulfilment

Subject contents

Nondestructive testing: visual methods magnetic particle testing radiographic testing acoustic emission Corrosion monitoring: linear polarization method electric resistance method coupon method electrochemical noise.

Prerequisites and co-requisites

Knowledge of electrochemistry and measurements of resistance

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Practical exercises	60.0%	100.0%

Recommended reading

Basic literature	G. Wranglen podstawy korozji i ochrony metali. WNT, Warszawa 1075 H.H. Uhlig Ochrona przed korozją, WNT, Warszawa 1976 H.H. Uhlig Ochrona przed korozją, WNT, Warszawa 1976
Supplementary literature	See: www.korozja.pl
eResources addresses	

Example issues/ example questions/ tasks being completed	NDT techniques used in diagnosticsCorrosion monitoring methods used in industry
Work placement	Not applicable