GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00039705		
Field of study	Materials Engineering, Materials Engineering, Materials Engineering		
Date of commencement of studies	February 2022	Academic year of realisation of subject	2022/2023
Education level	second-cycle studies	Subject group	Optional subject group 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	3.0
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. Krzysztof Żakowski	
	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	25.0	75

Subject objectives

Teaching the principles of performing coatings tests.

Teaching the principles of designing simple installations of cathodic protection.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K7_K01	The student is able to plan his work.	[SK3] Assessment of ability to organize work
K7_U01	The student is able to choose construction materials.	[SU2] Assessment of ability to analyse information
K7_U04	The student is able to perform simple design calculations of the cathodic protection installation.	[SU3] Assessment of ability to use knowledge gained from the subject
K7_W01	The student has expanded knowledge in the field of material engineering.	[SW1] Assessment of factual knowledge
K7_W04	The student has ordered knowledge of materials science.	[SW1] Assessment of factual knowledge

Subject contents

Destructive and non-destructive tests of coatings.

Designing of cathodic protection system of underground pipeline.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
test	60.0%	50.0%
design	60.0%	50.0%

Recommended reading

Basic literature	Teaching materials of the department.
Supplementary literature	not applicable
eResources addresses	

Example issues/ example questions/ tasks being completed	Destructive and non-destructive testing of protective coatings. Calculation of the protective range of the cathodic protection station.
Work placement	Not applicable