GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Designing corrosion protection, PG_00039693		
Field of study	Materials Engineering, Materials Engineering, Materials Engineering		
Date of commencement of studies	February 2023	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	1	ECTS credits	2.0
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	dr hab. inż. Stefan Krakowiak	
	Teachers	dr hab. inż. Stefan Krakowiak	

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

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	15.0	50

Subject objectives

Teaching students to carry out a technological project for corrosion protection and selection of construction materials.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K7_K02	The student cooperates in solving design problems with the team.	[SK4] Assessment of communication skills, including language correctness [SK1] Assessment of group work skills
K7_U04	The student defines environmental hazards of industrial construction. The student will identify the types of corrosion occurring in the given corrosive environment.	[SU3] Assessment of ability to use knowledge gained from the subject
K7_W04	The student presents a project of corrosion protection of an industrial facility indicated by the lecturer.	[SW1] Assessment of factual knowledge
K7_W05	The student presents a project of corrosion protection of an industrial facility indicated by the lecturer.	[SW1] Assessment of factual knowledge

Subject contents

Technical documentation of the project. Pre-design corrosion measurements. Technical description of the project. Consistency of the construction and technical design and corrosion protection design. Conditions for the implementation of corrosion protection. Surveillance system and work acceptance conditions.

Prerequisites and co-requisites

Knowledge of the basics of corrosion protection technology.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Project 2	100.0%	30.0%
Project 1	100.0%	70.0%

Recommended reading

Basic literature	Literature available on the e-learning site. Corrosion standards.
Supplementary literature	Catalogs of producers of organic coatings and corrosion resistant alloys.
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	Project of corrosion protection of the supporting structure of pipeline flyover for transhipment of petroleum products in the Baltic sea port.
Work placement	Not applicable