GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	INSPECTION OF PAINT COATING, PG_00064362		
Field of study	Corrosion		
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 Specialty 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	assessment
Conducting unit	Department of Corrosion and Electrochemistry -> Faculty of Chemistry -> Wydziały Politechniki Gdańskiej		
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	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

The aim of the course is to teach students procedures related to the quality testing of work leading to obtaining high-quality coating protection.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U08] assesses the potential for commercialisation of a product or technology based on an analysis of scientific publications and patents	The student is able to use literature resources and databases related to the application and testing of paint coatings.	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information
[K7_K02] understands the non-technical aspects and implications of graduate activity, including the impact on the environment	The student is able to determine the impact of technology on the environment and knows the economic aspects of implementing anti-corrosion protection.	[SK5] Assessment of ability to solve problems that arise in practice
[K7_W04] recognises scientific, technological, organisational and economic opportunities and constraints in corrosion and related fields	The student is able to select paint coatings to protect structures, taking into account technological possibilities and ecological constraints.	[SW1] Assessment of factual knowledge

Subject contents

Lectures: 1. Corrosion and the Basics of Corrosion Protection; 2 - Assessment of Climatic Conditions; 3 - Types of Paints; 4 - Methods for Assessing the Quality of Paint Products; 5 - Assessment of Coating Quality; 6 - The Work of a Paint Inspector;
Laboratories: 1 - Practical Assessment of Climatic Conditions; 2 - Testing Paint Coating Thickness; 3 - Testing Paint Coating Tightness; 4 - Testing Surface Cleanliness and Development; 5 - Testing Coating Adhesion; 6 - Conversion of Wet to Dry Coating Thickness, Coverage, and Indicating Paint Requirements.

Prerequisites and co-requisites

Basic knowledge of coating protection and methods of quality control of painting works.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
practical exam	90.0%	50.0%
theoretical exam	75.0%	50.0%

Recommended reading

Basic literature	Materials available at https://enauczanie.pg.edu.pl

	Supplementary literature	Materials available at https://enauczanie.pg.edu.pl
	eResources addresses	Basic https://enauczanie.pg.edu.pl/moodle/course/view.php?id=1130 - Available on e-korozja Supplementary https://enauczanie.pg.edu.pl/moodle/course/view.php?id=1130 - Available on e-korozja
Example issues/ example questions/ tasks being completed	Basics of corrosion and anti-corrosion protection. Assessing climatic conditions in the area where painting work is to be performed. Testing paint coating thickness. Testing paint coating hardness. Abrasive blasting/surface profile.	
Work placement	Not applicable	

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