



Subject card

Subject name and code	INSPECTION OF PAINT COATING, PG_00064362						
Field of study	Corrosion						
Date of commencement of studies	February 2027		Academic year of realisation of subject		2027/2028		
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 -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Stefan Krakowiak				
	Teachers						
Lesson types	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	Course content – lecture 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		
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.		
Practical activities within the subject	Not applicable		

Document generated electronically. Does not require a seal or signature.