



Subject card

Subject name and code	Inspection of paint coatings, PG_00048982						
Field of study	Corrosion						
Date of commencement of studies	February 2023	Academic year of realisation of subject			2023/2024		
Education level	second-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	3	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. Stefan Krakowiak					
	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	The aim of the course is to teach students the procedures related to the quality of work carried out to obtain high-quality coating protection.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K7_U04	The student is able to assess the condition of paint coatings and indicate the drawbacks associated with their application and aging.			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
	K7_W04	The student is able to use the acquired knowledge to conduct basic operations related to the examination of the quality of paint coatings.			[SW1] Assessment of factual knowledge		
	K7_W03	Student is able to perform the selection of paint coatings to secure the structure.			[SW1] Assessment of factual knowledge		
	K7_K05	The student is able to perform basic work related to the inspection of paint coatings and make decisions about their qualifications.			[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work		
	K7_U02	The student is able to use literature resources and databases related to the application and examination of paint coatings.			[SU2] Assessment of ability to analyse information		

Subject contents	<p>Lectures: 1. Corrosion and the basis of protection against corrosion; 2 - Assessment of climatic conditions; 3 - Types of paints; 4 - Methods for assessing the quality of paint products; 5 - Assessment of coating quality; 6 - Work of the paint coating inspector;</p> <p>Laboratories: 1 - Practical assessment of climatic conditions; 2 - Examination of the thickness of paint coatings; 3 - Research tightness of paint coatings; 4 - Examination of cleanliness and surface development; 5 - Adhesion test of coatings; 6 - Conversion of the thickness of wet coatings to dry, yields and indicating the demand for paints.</p>		
Prerequisites and co-requisites	Basic knowledge of coating protections and methods for quality control of painting.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	practical exam	75.0%	50.0%
	passing the lecture	60.0%	50.0%
Recommended reading	Basic literature	Materials available on <a href="https://enauczanie.pg.edu.pl">https://enauczanie.pg.edu.pl</a>	
	Supplementary literature	Materials available on <a href="https://enauczanie.pg.edu.pl">https://enauczanie.pg.edu.pl</a>	
	eResources addresses		
Example issues/ example questions/ tasks being completed	<p>Basics of corrosion and corrosion protection.</p> <p>Assessment of climatic conditions in the area of painting works.</p> <p>Examination of the thickness of paint coatings.</p> <p>Examination of hardness of paint coatings.</p>		
Work placement	Not applicable		