



Subject card

Subject name and code	Designing corrosion protection, PG_00039693						
Field of study	Materials Engineering, Materials Engineering						
Date of commencement of studies	February 2024	Academic year of realisation of subject			2023/2024		
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_W05	The student presents a project of corrosion protection of an industrial facility indicated by the lecturer.			[SW1] Assessment of factual knowledge		
	K7_W04	The student presents a project of corrosion protection of an industrial facility indicated by the lecturer.			[SW1] Assessment of factual knowledge		
	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_K02	The student cooperates in solving design problems with the team.			[SK1] Assessment of group work skills [SK4] Assessment of communication skills, including language correctness		
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 1		100.0%		70.0%		
	Project 2		100.0%		30.0%		
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 transshipment of petroleum products in the Baltic sea port.
Work placement	Not applicable