



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						

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