



Subject card

Subject name and code	CORROSION IN MINING AND PROCESSING INDUSTRY, PG_00064352						
Field of study	Corrosion						
Date of commencement of studies	February 2025	Academic year of realisation of subject				2024/2025	
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	1	ECTS credits				2.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Department of Corrosion and Electrochemistry -> 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	The aim of the course is to familiarize students with the technology of extracting basic minerals occurring in Poland and, above all, with corrosion problems accompanying the process of obtaining raw materials. In addition, students receive information on the anti-corrosion protection used in this branch of the economy.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[K7_W05] recognises key developments in research, apparatus and technology in corrosion and material degradation and related fields		The student has knowledge enabling the selection of appropriate materials and techniques to protect industrial installations under defined working conditions.			[SW1] Assessment of factual knowledge	
	[K7_K03] can interact and work in a group, undertaking various roles within it		The student has knowledge of both the execution and supervision of the protection of industrial structures.			[SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills	
	[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 evaluate the proposed solutions in comparison with those used in the economy.			[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information	
Subject contents	L: Corrosion in the copper mining and processing industries. Corrosion in the gas extraction industry. Corrosion in the oil industry. Materials used in the mining and processing industries.						
Prerequisites and co-requisites	General information on corrosion and corrosion protection. .						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	passing lectures	60.0%	60.0%
	passing laboratories	100.0%	40.0%
Recommended reading	Basic literature	The literature is available on the Department website: enauczanie.pg.edu.pl	
	Supplementary literature	The literature is available on the Department website: enauczanie.pg.edu.pl	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	The impact of mine water salinity on the rate of corrosion of basic construction materials.		
Work placement	Not applicable		

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