



Subject card

Subject name and code	Corrosion in mining and processing industry, PG_00035458						
Field of study	Corrosion						
Date of commencement of studies	February 2023	Academic year of realisation of subject			2022/2023		
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	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	3.0	17.0	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_U04	The student knows how to determine the rate of corrosion and the influence of various factors on its value.			[SU3] Assessment of ability to use knowledge gained from the subject		
	K7_W02	The student knows methods of determining the corrosion rate and methods of its reduction.			[SW1] Assessment of factual knowledge		
	K7_U01	The student knows the methods of measuring the basic factors affecting corrosion.			[SU4] Assessment of ability to use methods and tools		
Subject contents	L: Corrosion in the copper mining and processing industries. Corrosion in the gas extraction industry. Corrosion in the oil industry.						
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	70.0%		60.0%			
	passing laboratories	60.0%		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						

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