

Subject card

Elipioot nome and code	Failure Analysis, PG 00039090							
eabject name and code	Chemistry in Construction Engineering							
1 loid of olddy	, , ,							
Date of commencement of studies	October 2022		Academic year of realisation of subject		2024/2025			
Education level f	first-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery		at the university			
Year of study	3		Language of instruction		Polish			
Semester of study	5		ECTS credits		3.0			
Learning profile	general academic profile		Assessment form		exam			
Conducting unit	Department of Electrochemistry, Corrosion and Materials Engineering -> Faculty of Chemistry							
	Subject supervisor dr hab. inż. Paweł Ślepski							
	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							
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=19389							
Learning activity and number of study hours	Learning activity Participation in classes include plan			Participation in consultation hours		Self-study		SUM
	Number of study hours	45	5.0			25.0		75
	The student properly investigates objects damaged by the corrosion processes. The student is able to prepare analysis of corrosion damage report.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K6_K03		, , ,			[SK5] Assessment of ability to solve problems that arise in practice		
	K6_W08					[SW1] Assessment of factual knowledge		
(Analysis of corrosion damages generated by different corrosion processes (general corrosion, galvanic corrosion, pitting corrosion, crevice corrosion, intergranular corrosion, stress corrosion cracking, etc.). General description of particular corrosion processes. Review of common places of corrosion damages in industrial systems. Methods of failure analysis. Elements of prevention. Preparation of reports							
Prerequisites and co-requisites	Basic knowledge of electrochemistry							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade			
	written exam		50.0%		60.0%			
	reports		100.0%			40.0%		
Recommended reading	Basic literature		Practical Engineering Failure Analysis, H.M. Tawancy, A. Ul-Hamid, N.M. Abbas, Marcel Dekker, New York 2004					
	Supplementary literature		Fundamentals of Metallic Corrosion, P.A. Schweitzer, CRC Press, New York 2006					
	eResources addresses		Adresy na platformie eNauczanie:					
	Corrosion of metal elements in industrial plantsCorrosion of heat exchangersCorrosion of pipework in the groundElectrochemical corrosion in reinforced concrete structures							
Work placement	Not applicable							

Data wydruku: 05.05.2024 19:04 Strona 1 z 1