

Subject card

Subject name and code	Analisis of Corrosion Damage, PG_00039701								
Field of study	Materials Engineering, Materials Engineering, Materials Engineering								
Date of commencement of studies	February 2023		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	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Electrochemistry, Corrosion and Materials Engineering -> Faculty of Chemistry					/			
Name and surname	Subject supervisor	dr hab. inż. Paweł Ślepski							
of lecturer (lecturers)	Teachers		dr hab. inż. Paweł Ślepski						
			dr hab. inż. Stefan Krakowiak						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	0.0	0.0		30.0	45	
	E-learning hours inclu	ıded: 0.0				1		i	
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation in consultation hours		Self-study SUM		SUM	
	Number of study hours	45		5.0		25.0		75	
Subject objectives	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			
	K7_U01		The student knows the sources of data necessary for the analysis of corrosion damage and is able to use them properly			[SU2] Assessment of ability to analyse information			
	K7_K02		102/5000 The student is aware of the rules of conduct and professional ethics resulting from engineering activities.			[SK5] Assessment of ability to solve problems that arise in practice			
	[K7_K82] is equipped to participate actively in lectures, seminars and laboratory classes conducted in foreign language		The student knows the English terminology in the field of corrosion			[SK4] Assessment of communication skills, including language correctness			
	K7_W04		The student presents typical dangers for material caused by the given environment			[SW1] Assessment of factual knowledge			
Subject contents	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. Presentation of data base of corrosion damages.								
Prerequisites and co-requisites	Understanding of the theoretical basis of the corrosion processes. Understanding of the non-destructive techniques.								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	written exam		_			60.0%			
	report		100.0%			40.0%			

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Recommended reading	Basic literature	https://enauczanie.pg.edu.pl e-korozia
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	Supplementary literature	Practical Engineering Failure Analysis, H.M. Tawancy, A. Ul-Hamid, N.M. Abbas, Marcel Dekker, New York 2004 Fundamentals of Metallic Corrosion, P.A. Schweitzer, CRC Press, New York 2006
	eResources addresses	Adresy na platformie eNauczanie:
		Analiza uszkodzeń korozyjnych - Moodle ID: 34357 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34357
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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