

Subject card

Subject name and code	Electrochemistry II, PG_00039817							
Field of study	Materials Engineering, Materials Engineering							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024		
Education level	first-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	3		Language of instruction			Polish		
Semester of study	6		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	Subject supervisor		dr hab. inż. Paweł Ślepski					
of lecturer (lecturers)	Teachers		dr hab. inż. P					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec			SUM
	Number of study hours	0.0	0.0	30.0	0.0		0.0	30
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity Participation in classes include plan			Participation in consultation hours		Self-study SUM		SUM
	Number of study 30 hours		3.0		17.0 50			
Subject objectives	Examination of principal electrochemical processes using various measuring techniques.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K6_W06		Student understands principal electrochemical techniques			[SW1] Assessment of factual knowledge		
	K6_U01		Student is able to carry out electrochemical measurements			[SU3] Assessment of ability to use knowledge gained from the subject		
	K6_W02		The student is able to choose the appropriate measurement technique for material analysis			[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	1. Electrical eqvivalent circuits 2. Reference electrodes 3. Thermodynamic stability of water 4. Electric double layer 5. Hydrogen evolution 6. Chronopotentiometry 7. Chronowoltamperometry I 8. Electrochemical impedance spectroscopy (EIS) I 9. EIS II 10. Chronowoltamperometry II 11. Lead acid batteries 12. Electropolymerization							
Prerequisites and co-requisites	Completion of the Electrochemistry I course							
Assessment methods and criteria	Subject passing criteria		Pass	Passing threshold		Percentage of the final grade		
	raports		60.0%		50.0%			
	tests		55.0%			50.0%		
Recommended reading	Basic literature	- materials available at www.enauczanie.pg.edu.pl (in Polish)						
	Supplementary literature		Elektrochemia I lectures					
	eResources addresse	Adresy na platformie eNauczanie:						

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Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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