

Subject card

Subject name and code	Electrochemistry II, PG_00039817								
Field of study	Materials Engineering, Materials Engineering, Materials Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies	rst-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. Paweł Ślepski						
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	
	Number of study hours 30		3.0		17.0 50		50		
Subject objectives	Examination of principal electrochemical processes using various measuring techniques.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	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			
	K6_U01		Student is able to carry out electrochemical measurements			[SU3] Assessment of ability to use knowledge gained from the subject			
	K6_W06		Student understands principal electrochemical techniques			[SW1] Assessment of factual knowledge			
Subject contents	 Electrical eqvivalent circuits Reference electrodes Thermodynamic stability of water Electric double layer Hydrogen evolution Chronopotentiometry Chronowoltamperometry I Electrochemical impedance spectroscopy (EIS) I EIS II Chronowoltamperometry II Lead acid batteries 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			
	tests		55.0%		50.0%				
	raports					50.0%			
Recommended reading	Basic literature		- materials available at www.enauczanie.pg.edu.pl (in Polish)						
	Supplementary literature		Elektrochemia I lectures						
	eResources addresses		Adresy na platformie eNauczanie:						

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

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