

## Subject card

Subject name and code	DIPLOMA LABORATORY WORK, PG_00048972								
Field of study	Green Technologies								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			English			
Semester of study	3		ECTS credits			5.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Energy Conversion and Storage -> Faculty of Chemistry								
Name and surname	Subject supervisor								
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ct Seminar		SUM	
	Number of study hours	0.0	0.0	75.0	0.0	0.0		75	
	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	75	15.0			40.0 130		130	
Subject objectives	The aim of the course is to carry out the research needed to write a master's thesis.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_K02] is ready to work together as a team, taking in the different roles, can properly identify priorities for implementation specified by you or other tasks, is able to think and act in a creative and enterprising, has the ability to negotiate, is aware of its own limitations and know when to ask the experts		The graduate student is able to work in a group and assess his skills in terms of the tasks performed. He asks for help in case of problems in the implementation of the entrusted functions.						
			Has the knowledge to create a research plan and solve existing problems.  The graduate student is able to present the effects of his work in an understandable and clear manner. Can critically evaluate his / her work and formulate proposals for solving existing problems.						

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Subject contents	- preparation of a research plan						
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	- preparation of the stand and samples  - carrying out research  - analysing the results						
Prerequisites							
and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Implementation of the research plan	60.0%	100.0%				
Recommended reading	Basic literature	- Fthenakis, V. M., Duby, P., Wang, W., Graves, C., & Belova, A. (2006). Recycling of CdTe Photovoltaic Modules: Recovery of Cadmium and Tellurium. 21st European Photovoltaic Solar Energy Conference, 25392541.					
		- Sinha, P. (2013). Life cycle materials and water management for CdTe photovoltaics. Solar Energy Materials and Solar Cells, 119, 271275.					
		- Menezes, S. (2001). Electrochemical approach for removal, separation and retrieval of CdTe and CdS films from PV module waste. Thin Solid Films, 387(12), 175178.					
		(pozostałe pozycje do ustalenia z promotorem)					
	Supplementary literature	pplementary literature additional publications					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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