

SDAŃSK UNIVERSITY 的 OF TECHNOLOGY

Subject card

Subject name and code	DIPLOMA LABORATORY WORK, PG_00048972								
Field of study	Green Technologies								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
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	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 inclu			i					
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-st	tudy	SUM	
	Number of study hours	75		15.0		40.0 130		130	
Subject objectives	The aim of the course	e is to carry out	the research r	needed to write	a mast	er's the	sis.		
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.						
	of applied mathematics and optimization methods including mathematical methods, useful to formulate and solve complex tasks in the field of environmental technologies and modern analytical methods [K7_K03] can consciously and supported by the experience to present your work, provide information in a manner commonly understood, to communicate, to make self-assessment and		Has the knowledge to create a research plan and solve existing problems.						
	constructive criticism of the work of others, the reasons for different points of view		problems.						

Subject contents	propagation of a research plan							
Subject contents	- preparation of a research plan							
	- preparation of the stand and samples							
	- carrying out research - analysing the results							
Prerequisites								
and co-requisites								
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	Implementation of the research	60.0%	100.0%					
	plan							
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.	d Films, 387(12), 175178.					
		(pozostałe pozycje do ustalenia z promotorem)						
	Supplementary literature							
	Supplementary literature eResources addresses	additional publications						
	eResources addresses Adresy na platformie eNauczanie:							
Example issues/ example questions/								
tasks being completed								
Work placement	Not applicable	Not applicable						