



## Subject card

Subject name and code	Master's Thesis, PG_00049112						
Field of study	Engineering and Technologies of Energy Carriers						
Date of commencement of studies	February 2024		Academic year of realisation of subject		2025/2026		
Education level	second-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		20.0		
Learning profile	practical profile		Assessment form		assessment		
Conducting unit	Department of Process Engineering and Chemical Technology -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Karolina Kucharska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	0.0	0
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	0		55.0		445.0	500
Subject objectives	The aim of the classes is to familiarize the student with the methodology of preparing a scientific work and its written presentation. Also preparing the student for the diploma exam. The classes also include familiarizing the student with research methodology and performing laboratory tests.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	K7_W05	The student knows and understands the processes occurring in the elements used to generate and convert energy from biomass, knows and understands to a deeper level - selected issues of energy generation from conventional and renewable sources and their transmission and storage in the field of physics and chemistry as well as chemical technology and engineering, and selected issues in the field of advanced detailed knowledge of eco-energy, knows and understands the main development trends in the field of increasing energy efficiency and renewable energy from waste sources.	[SW3] Assessment of knowledge contained in written work and projects
	K7_U08	The student is able to design a multi-stage technological process related to engineering and energy carrier technologies and implement this project on a laboratory scale using appropriate methods, techniques and tools, adapting existing methods, techniques and tools for this purpose or developing new methods, techniques and tools.	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools
	K7_W01	knows and understands selected processes and unit operations as well as the methods and theories related to them describing the complex relationships between them, has knowledge covering key issues and selected issues in the field of advanced detailed knowledge regarding the production and processing of biofuels	[SW1] Assessment of factual knowledge
	K7_W07	The student understands the basic processes occurring in devices and measurement systems for technical analytics and quality control, knows and understands to a deeper degree - selected methodologies of technical analytics, occurring phenomena and techniques used, as well as related methods and theories explaining the complex relationships between them in the area of quality control of raw materials and products of technological processes on a laboratory scale.	[SW1] Assessment of factual knowledge
	K7_U07	The student reviews and is able to critically analyze existing technical solutions and propose their modifications.	[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information
Subject contents			
Prerequisites and co-requisites	Passed subjects provided for in the study plan		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	research work	80.0%	50.0%
	literature review	80.0%	50.0%
Recommended reading	Basic literature	Literature individually selected for the topic of the diploma thesis	
	Supplementary literature	null	
	eResources addresses		

Example issues/ example questions/ tasks being completed	<p>Design and build a measurement station to perform planned experiments.</p> <p>Develop a measurement methodology.</p> <p>Prepare a methodology for developing measurement results.</p>
Practical activities within the subject	Not applicable

Document generated electronically. Does not require a seal or signature.