



Subject card

Subject name and code	Diploma Laboratory, PG_00049436						
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		10.0		
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	200.0	0.0	0.0	200
	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	200		40.0		10.0	250
Subject objectives	Carrying out the practical experimental part related to the implementation of the diploma thesis						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	K7_U04	The student is able to assess the usefulness and possibility of using the results when solving complex engineering tasks, including non-standard, individual tasks for a diploma thesis, in the field of chemical engineering and technology.	[SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
	K7_W08	The student has extended knowledge of the selection of the appropriate technological process; the resistance of materials to degradation, degradation mechanisms and ways to improve the efficiency and effectiveness of processes.	[SW1] Assessment of factual knowledge
	K7_W03	The student knows and understands the basic processes and phenomena occurring in measuring devices and control systems used on a laboratory and quarter-technical scale, as well as their impact on technological processes and selected issues in the field of advanced detailed knowledge regarding the control of technological processes, knows and understands the main development trends in the field of measurement, regulation and control of technological processes.	[SW3] Assessment of knowledge contained in written work and projects
	K7_W02	The student knows and understands the basic processes and phenomena occurring in industrial equipment, covering key issues and selected issues in the field of advanced detailed knowledge regarding the production, conversion and modification of functional properties as well as the exploitation and transmission of energy and its carriers, including liquid and gaseous biofuels, and knows and understands the main development trends in this thematic area.	[SW1] Assessment of factual knowledge
	K7_U01	Students can plan and conduct experiments, interpret obtained results, and draw conclusions necessary to randomize experimental results. They can also formulate and test hypotheses related to engineering problems and simple research problems in relation to the relevant literature.	[SU4] Assessment of ability to use methods and tools
Subject contents	Course content – laboratory Formulating the Research Problem Selection of Research Methods Preparing Experimental Results Statistical Analysis		
Prerequisites and co-requisites	Passed subjects included in the study plan		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	processing of results	60.0%	50.0%
	statistical analysis	60.0%	50.0%
Recommended reading	Basic literature	Literature specified in the proposal for the diploma topic	
	Supplementary literature	Literature specified in the proposal for the diploma topic	
	eResources addresses		

Example issues/ example questions/ tasks being completed	<p>Design and construction of the test stand</p> <p>Execution of the task according to the statistical/factorial design</p> <p>Procedure development</p> <p>Literature substantiation of experimental results</p> <p>Result processing</p>
Practical activities within the subject	Not applicable

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