



Subject card

Subject name and code	ENGINEERING DIPLOMA PROJECT I, PG_00064414						
Field of study	Chemistry						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	first-cycle studies		Subject group		Optional subject group 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 Analytical Chemistry -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0	0.0	30
	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	30		2.0		18.0	50
Subject objectives	The objective of this course is to prepare students to independently write an engineering thesis, use academic literature and databases, and critically evaluate scientific information, as well as to learn the principles of preparing technical and scientific documentation, including the preparation of a thesis in accordance with academic requirements.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K01] understands the need for continuous learning, can inspire and organise learning and others, understands the importance of group and team activities		is aware of the importance of continuous self-improvement and regularly follows the latest academic literature.		[SK4] Assessment of communication skills, including language correctness		
	[K6_U09] is able to recognise hazards, counteract them and work with chemical reagents and basic technical apparatus in accordance with health and safety principles and the concept of sustainability		is able to work in a chemistry laboratory in accordance with health and safety regulations, and is able to identify hazards during scientific research and eliminate them.		[SU1] Assessment of task fulfilment		
	[K6_U01] gathers information from literature, databases and other sources, interpreting, critically evaluating, summarising, formulating and justifying opinions, independently analyses and produces technical drawings with the use of computer assistance		The student is able to conduct a literature review on the topic of the thesis, use databases, and, based on the information obtained, write a literature review for the thesis.		[SU2] Assessment of ability to analyse information		
	[K6_U05] designs and performs experiments to confirm a hypothesis, recognises the wider, often non-technical context of the phenomena analysed		The student is able to conduct research related to the topic of the thesis, correctly interpret the results obtained, and draw conclusions.		[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task		

Subject contents	Course content – project 1. Completion of an individual thesis project in chemistry. 2. Review and analysis of scientific literature on a selected topic. 3. Formulation of the objective and scope of the thesis project. 4. Preparation of a concept and a plan for research or project work. 5. Selection of research and analytical methods appropriate for the chosen topic. 6. Conducting research, analyses, or project calculations. 7. Preparation, analysis, and interpretation of the obtained results.		
Prerequisites and co-requisites	Preliminary requirements: The student has a basic knowledge of physical, inorganic, and organic chemistry. The student is able to use scientific literature and databases, including those in English, perform basic chemical analyses, and present research results in the form of reports or written papers. Additional requirements: The student is prepared to conduct independent research and project work and to collaborate with their thesis supervisor.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Evaluation of the Presentation of the Obtained Results	60.0%	100.0%
Recommended reading	Basic literature	literature on the subject matter of the project	
	Supplementary literature	literature on the subject matter of the project	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Practical activities within the subject	Not applicable		

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