



Subject card

Subject name and code	Diploma thesis, PG_00060880						
Field of study	Chemical Technology						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2026/2027		
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	4	Language of instruction			Polish		
Semester of study	7	ECTS credits			10.0		
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	prof. dr hab. inż. Piotr Konieczka					
	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		10.0		240.0	250
Subject objectives	To prepare students to independently complete an engineering thesis in the field of chemical technology analytics, including research planning, analysis of results, and their proper presentation in accordance with the principles of academic writing.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_W12] knows the chemical nomenclature in Polish and specialized terms related to chemical technology	knows correct chemical nomenclature in Polish and applies appropriate technical terms from the field of chemical engineering in the preparation and presentation of their thesis.	[SW3] Assessment of knowledge contained in written work and projects
	[K6_K05] is aware of the social role of a technical university graduate, and in particular understands the need to formulate and communicate to the public, in particular through the mass media, information and opinions on the achievements of technology and other aspects of engineering activity	is aware of the social role of an engineer and is able to formulate and communicate information about technological achievements and engineering activities in a responsible and clear manner.	[SK1] Assessment of group work skills [SK4] Assessment of communication skills, including language correctness
	[K6_U01] is able to acquire information from literature, databases and other appropriately selected sources, also in English; is able to integrate information obtained, interpret it and make conclusions, formulate and justify opinions	is able to gather information from literature and databases (including those in English), synthesize and interpret it, and formulate and justify conclusions and opinions.	[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools
[K6_K01] understands the need for continuing education, and is aware of the opportunities to improve professional, personal and social competences	understands the importance of learning throughout life and continuously improving their competencies. They are able to identify areas requiring development and suggest appropriate ways to enhance their professional, personal, and social skills, including utilizing available sources of knowledge, training, and practical experience. The student demonstrates a readiness for self-reflection, setting development goals, and consciously planning their own development path.	[SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice	
Subject contents			
Prerequisites and co-requisites	<p>Basic knowledge of chemical analysis and instrumental methods Ability to use scientific literature and databases Knowledge of the principles of writing academic papers</p> <p>Ability to work independently and manage ones time Willingness to conduct research and analyze results Proficiency in English sufficient to work with academic literature Basic proficiency in specialized software (e.g., for data analysis)</p>		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Diploma thesis	60.0%	100.0%
Recommended reading	Basic literature	Literature related to the topic of the thesis	
	Supplementary literature	Literature related to the topic of the thesis	
	eResources addresses		
Example issues/ example questions/ tasks being completed	<p>Selecting and refining the thesis topic Review and analysis of the scientific literature Planning research or an engineering study Selection of analytical methods and research tools Conducting research / analyses / calculations Compilation and interpretation of results Formulation of conclusions Preparation of the thesis in accordance with formal requirements Preparation for the thesis defense</p>		
Practical activities within the subject	Not applicable		

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