GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Diploma thesis, PG_00060880						
Field of study	Chemical Technology						
Date of commencement of studies	October 2024		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	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

Basic knowledge of chemical analysis and instrumental methods
Ability to use scientific literature and databases
Knowledge of the principles of writing academic papers

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)

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

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

Practical activites within the subject

Not applicable

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