GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Engineering diploma project I, PG_00060775		
Field of study	Chemical Technology		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2025/2026
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	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	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

Preparing students to independently develop an engineering thesis in the field of chemical analytics in chemical technology.
Acquiring skills in using scientific literature and databases, and critically evaluating scientific information.
Mastering the principles of developing technical and scientific documentation, including preparing a thesis in accordance with academic requirements.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U11] individually plans and implements his/her own learning	The student is able to independently plan and implement their own learning and development of competences in the field of chemical technology.	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools
[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	The student is able to search for information in literature and databases (also in English), integrate it, interpret it, and formulate and justify conclusions concerning issues related to chemical technology.	[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task
[K6_W12] knows the chemical nomenclature in Polish and specialized terms related to chemical technology	The student knows and correctly uses chemical nomenclature in Polish in accordance with the rules of the International Union of Pure and Applied Chemistry (IUPAC) and uses specialist terminology in the field of chemical technology, in particular in the area of chemical analysis and analytical methods used in chemical technology.	[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects
[K6_K01] understands the need for continuing education, and is aware of the opportunities to improve professional, personal and social competences	The student understands the need for continuous improvement of professional, personal, and social skills and knows the possibilities for developing them in the field of chemical technology.	[SK1] Assessment of group work skills [SK3] Assessment of ability to organize work

<table>
<tr><td>Subject contents</td><td>Course content – project
completion of an individual diploma project in the field of chemical technology, in the area of chemical analysis
review and analysis of scientific literature on a selected topic
formulation of the objective and scope of the diploma project
development of a concept and plan for research or project work
selection of research and analytical methods appropriate for the topic
conducting research, analyses, or design calculations
development, analysis, and interpretation of the results obtained
preparation of project documentation and editing of the thesis
preparation for the presentation and defense of the thesis</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Prerequisites: Students have basic knowledge of chemistry and chemical technology, in particular analytical methods and technological processes. They are able to use scientific literature and databases, including those in English, perform basic chemical analyses, and compile research results in the form of reports or written studies.

Additional requirements: The student is prepared for independent research and project work, cooperation with a thesis supervisor, and has basic knowledge and skills in chemical analysis, which will be used in the implementation of the diploma project.</td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>project</td><td>60.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>literature on the subject matter of the project</td></tr><tr><td>Supplementary literature</td><td>literature on the subject matter of the project</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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