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 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	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_U01] Is able to independently plan the learning process and acquire, analyse and interpret information from various sources, also in English.	knows and correctly applies terminology related to chemistry and polymer technology. The student is able to describe, in both popular science and technical terms, the production, properties, and applications of plastics (including topics from their own thesis) as well as their significance for society.	[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information
[K6_K01] Is aware of the social role of a technical university graduate and understands the need to provide information about technical achievements and engineering activities to society, including through the media.	is able to independently plan and carry out their own work related to the topic of an engineering project. The student is able to obtain information from scientific literature (scientific publications and academic textbooks) and databases, particularly foreign-language ones, in the field of polymer chemistry and technology. The student is able to analyze the information obtained and draw appropriate conclusions.	[SK4] Assessment of communication skills, including language correctness

<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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