



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 Polymer Technology -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)		Subject supervisor		dr hab. inż. Justyna Kucińska-Lipka				
		Teachers		dr hab. inż. Justyna Kucińska-Lipka				
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		Starting work on the preparation of an engineering diploma project, including conducting a literature review on the topic of the diploma thesis and planning and commencing experimental work						
Learning outcomes		Course outcome	Subject outcome			Method of verification		
		[K6_W12] knows the chemical nomenclature in Polish and specialized terms related to chemical technology	The student knows and correctly uses the terminology in the field of polymer chemistry and technology.			[SW3] Assessment of knowledge contained in written work and projects		
		[K6_U11] individually plans and implements his/her own learning	The student is able to independently plan and carry out his/her own work related to the subject of the engineering project, including searching for and analyzing literature.			[SU5] Assessment of ability to present the results of task		
		[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 obtain information from scientific literature (scientific publications and academic textbooks) and databases, especially foreign ones, in the area related to polymer chemistry and technology. The student is able to analyze the obtained information and draw appropriate conclusions.			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information		
		[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 education in polymer chemistry and technology due to the dynamic development of the plastics and rubber industry. The student understands that, in addition to technical knowledge, personal and social skills are also important.			[SK1] Assessment of group work skills [SK4] Assessment of communication skills, including language correctness		

Subject contents	Course content – project <ul style="list-style-type: none"> <li>• Literature review related to the engineering diploma project</li> <li>• Planning the implementation of the engineering diploma project</li> <li>• Selection of research methods and techniques to achieve the objectives of the engineering diploma project</li> <li>• Occupational health and safety in the chemical laboratory and on the technological hall</li> <li>• Commencing experimental work (in accordance with the scope of the diploma project)</li> </ul>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Report on the conducted literature review	100.0%	50.0%
	google translate Tryb AI Wszystko Grafika Wideo Sieć Wiadomości Książki Więcej Narzędzia Polski Angielski Report on the experimental work carried out	100.0%	50.0%
Recommended reading	Basic literature	<ul style="list-style-type: none"> <li>• J.F. Rabek: Współczesna wiedza o polimerach. Tom 1: Budowa strukturalna polimerów i materiały badawcze, PWN, Warszawa 2017</li> <li>• J.F. Rabek: Współczesna wiedza o polimerach. Tom 2: Polimery naturalne i syntetyczne, otrzymywanie i zastosowania, PWN, Warszawa 2017</li> <li>• G.W. Ehrenstein, Ż. Brocka-Krzemińska: Materiały polimerowe: Struktura, właściwości, zastosowanie, PWN, Warszawa 2016</li> <li>• Scientific literature (textbooks and scientific publications) related to the engineering project</li> </ul>	
	Supplementary literature	Scientific literature, industry standards, procedures and instructions indicated by the engineering project supervisor	
	eResources addresses		
Example issues/ example questions/ tasks being completed	<ul style="list-style-type: none"> <li>• Review of scientific publications related to the engineering project, taking into account the identified points.</li> <li>• Preparation of a work schedule for the semester and deadlines for submitting interim reports.</li> <li>• Conducting research work agreed upon with the supervisor.</li> </ul>		
Practical activities within the subject	Not applicable		

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