



Subject card

Subject name and code	Engineering diploma project II, PG_00060776						
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		4.0		
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						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	60.0	0.0	60
	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	60		5.0		35.0	100
Subject objectives	Preparation of an engineering diploma project, including conducting a literature review within the scope of the diploma thesis topic and carrying out planned experimental work, processing the obtained results and their analysis.						
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 carry out his/her own work related to the subject of the engineering project, including searching for and analyzing literature and analysis of obtained results		[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment		
	[K6_U12] applies the principles of health and safety at work		The student is able to comply with applicable health and safety rules when working in a chemical laboratory and in a production hall.		[SU1] Assessment of task fulfilment		
	[K6_U02] is able to operate typical laboratory apparatus and conduct analyses related to materials testing		The student is able to operate scientific equipment, machines and devices necessary to implement an engineering diploma project in the field of polymer chemistry and technology.		[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
	[K6_K02] understands the non-technical aspects and implications of the activities of a chemical engineer, including the impact on the environment, is aware of professional behaviour, observance of professional ethics and respect for diversity of views and cultures		The student understands the non-technical aspects of the work of an engineer and chemical technologist in the context of the impact of the plastics industry on the environment and minimizing the negative consequences associated with it. The student conducts himself in a professional manner when performing tasks related to the engineering diploma project.		[SK2] Assessment of progress of work		

Subject contents	Course content – project • Literature review related to the engineering diploma project • Selection of research methods and techniques to achieve the objectives of the engineering diploma project • Occupational health and safety in the chemical laboratory and on the technological hall • Realization of experimental work (in accordance with the scope of the diploma project) • Development and analysis of research results • Preparation of an engineering diploma project		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Engineering diploma project	100.0%	100.0%
Recommended reading	Basic literature	• J.F. Rabek: Współczesna wiedza o polimerach. Tom 1: Budowa strukturalna polimerów i materiały badawcze, PWN, Warszawa 2017 • J.F. Rabek: Współczesna wiedza o polimerach. Tom 2: Polimery naturalne i syntetyczne, otrzymywanie i zastosowania, PWN, Warszawa 2017 • G.W. Ehrenstein, Ż. Brocka-Krzemińska: Materiały polimerowe: Struktura, właściwości, zastosowanie, PWN, Warszawa 2016 • Scientific literature (textbooks and scientific publications) related to the engineering project	
	Supplementary literature	Scientific literature, industry standards, procedures and instructions indicated by the engineering project supervisor	
	eResources addresses		
Example issues/ example questions/ tasks being completed	• Review of scientific publications related to the engineering project, taking into account the identified points. • Preparation of a work schedule for the semester and deadlines for submitting interim reports. • Conducting research work agreed upon with the supervisor • Processing and analyzing the results Preparing the engineering diploma project		
Practical activities within the subject	Not applicable		

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