

## Subject card

Subject name and code	, PG_00065829								
Field of study	Materials Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group			Specialty 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	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Polym	-> Faculty of C	hemistry						
Name and surname	Subject supervisor		prof. dr hab. inż. Janusz Datta						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	ratory Project		Seminar	SUM	
	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		4.0		41.0		75	
Subject objectives	Get to know the essence of the design of industrial processes plastics. Understanding the principles of project development process and technology. Acquainted with the operation and selection of industrial equipment in engineering plastics. Knowing the mass of the main production lines plastics. Understanding the principles of operation and control of industrial installations.								
Learning outcomes	Course outcome Subject outcome Method of verification						fication		
	[K7_U01] Can obtain information from literature, databases and other properly selected sources, also in English; can integrate the obtained information, interpret and draw conclusions, formulate and justify opinions		The student is able to obtain information from various sources and interpret it, draw conclusions and justify statements.			[SU2] Assessment of ability to analyse information			
	[K7_K02] Is aware of the importance of non-technical aspects and effects of engineering, including the influence on the environment and resulting responsibility for the decisions.		The student understands the responsibility from the decisions made on engineering activities and their impact on the environment			[SK2] Assessment of progress of work			
	[K7_W04] Has enhanced knowledge of materials sciences, within the scope required for describing and understanding the correlation between the chemical composition, structure and mechanical and physical properties.		Has adequate knowledge of materials and in particular is able to interpret the relationships between chemical composition, structure and mechanical and physical properties			[SW2] Assessment of knowledge contained in presentation			
Subject contents	The essence of design processes The concept of chemical and technological process Selected achievements and directions of the development of modern industrial engineering plastics Quality management systems Issues of industrial property protection								
Prerequisites and co-requisites	General knowledge of polymer plastics. Knows the equipment and machinery used in the plastics industry, Fundamentals of heat and mass balance.								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	written exam		50.0%			50.0%			
	elaboration, discussi	100.0%	100.0%			50.0%			

Recommended reading	Basic literature	Synoradzki L., Wisialski J. (red.): Projektowanie procesów technologicznych. Od laboratorium do instalacji przemysłowej, Warszawa 2006 Synoradzki L., Wisialski J. (red.): Projektowanie procesów technologicznych. Bezpieczeństwo procesów chemicznych Warszawa 2012 Szarawara J., Piotrowski J.: Podstawy teoretyczne technologii chemicznej, Warszawa 2010 Pikoń J.: Aparatura chemiczi, Warszawa 1983				
	Supplementary literature	Bogoczek R., Kociołek-Balawejder E.: Technologia chemiczna organiczna. Surowce i półprodukty, Wrocław 1992 Florjańczyk Z., Penczek S. (red.): Chemia polimerów T.1. oraz T.2., Warszawa 2001 Rabek J.: Współczesna wiedza o polimerach, Warszawa 2008 Sikora R.: Przetwórstwo tworzyw wielkocząsteczkowych, Warszawa 1993				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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