

## Subject card

Subject name and code	Technology of Polymer Syntheses, PG_00039718								
Field of study	Materials Engineering, Materials Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025			
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 n/a			
Semester of study	6		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Polymer Technology -> Faculty of Chemistry								
Name and surname	Subject supervisor		dr hab. inż. Łukasz Piszczyk						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	oject Seminar		SUM	
of instruction	Number of study hours	30.0	0.0	30.0	0.0		0.0	60	
	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 60 hours			5.0		35.0		100	
Subject objectives	The student has knowledge about polymerization and technological methods of obtaining polymeric materials								
Learning outcomes	Course outcome Subject outcome Method of verification								
	K6_U02		materials and their properties			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	K6_W07		The student has knowledge about materials and their properties			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation			
	K6_K01		professional experience			[SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work			
K6_U03			The student has knowledge of materials engineering and is able to select apparatus and perform analyses in an appropriate way.			[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools			
Subject contents	Basic concepts: monomers, oligomers, natural and synthetic polymers, amorphous polymers and crystalline, polydispersity. Types of polireactions. Radical polymerization, initiators and reactions chemical reactions occurring in the chain initiation, growth and completion processes. Polymerization coordination - reactions taking place in the process of initiation, growth and ending of the chain. Ion polymerization - reactions occurring in the process of chain initiation, growth and ending.								
Prerequisites and co-requisites			•			-	<u> </u>		
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	Exam		60.0%			60.0%			
Laboratory			100.0%			40.0%			

Data wygenerowania: 03.04.2025 05:33 Strona 1 z 2

Recommended reading	Basic literature	Praca zbiorowa pod redakcją Z. Floriańczyka i S. Penczka, Chemia polimerów tom 1. Makrocząsteczki i metody ich otrzymywania. Oficyna Wydawnicza Politechniki Warszawskiej, W-wa 1995.     Pielichowski J., Chemia polimerów, WNT Kraków 2004.				
	Supplementary literature	1. Jan F. Rabek, Współczesna wiedza o polimerach, PWN, Warszawa, 2008.				
	eResources addresses	Adresy na platformie eNauczanie:				
		Technologia syntezy polimerów - Moodle ID: 45150 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=45150				
Example issues/	xample questions/					
example questions/ tasks being completed						
Work placement	Not applicable					

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Data wygenerowania: 03.04.2025 05:33 Strona 2 z 2