

Subject card

	Technology of Polymor Synthogon DC 00020749								
	Technology of Polymer Syntheses, PG_00039718 Materials Engineering, Materials Engineering								
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Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Optional subject group			
						Subject group related to scientific research in the field of study			
Mode of study F	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 Polymers Technology -> Faculty of Chemistry								
- Tambo and barrianno	Subject supervisor		dr hab. inż. Łukasz Piszczyk						
of lecturer (lecturers)	Teachers								
	Lesson type	Lecture	Tutorial	Laboratory	aboratory Project		Seminar	SUM	
	Number of study hours	30.0	0.0	30.0	0.0		0.0	60	
E	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	60		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							fication	
	K6_U02		The student has knowledge about materials and their properties			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	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			
	K6_W07					[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation			
	K6_K01		The student understands the need to increase competence and 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			
	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. lon polymerization - reactions occurring in the process of chain initiation, growth and ending.								
									
Prerequisites									
	Subject passin	g criteria	Passi	ing threshold		Pero	centage of the	final grade	
Prerequisites and co-requisites Assessment methods	Subject passing	g criteria	Passi	ing threshold		Pero 40.0%	centage of the	final grade	

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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:				
Example issues/ example questions/ tasks being completed	Discuss the methods of synthesis of polyethylene. Discuss radical polymerization using a selected polymer example. Living polymerization. 4. Polymerization in bulk vs. in suspension - give main differences					
Work placement	Not applicable					

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