

Subject card

Subject name and code	Modification of high - molecular compounds , PG_00038551								
Field of study	Chemical Technology								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2023/2024			
Education level	second-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	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Polymers Technology								
Name and surname	Subject supervisor		dr hab. inż. Justyna Kucińska-Lipka						
of lecturer (lecturers)	Teachers		dr hab. inż. Justyna Kucińska-Lipka						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
of instruction	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 30 hours			5.0		40.0		75	
Subject objectives	The goal of the course is to give the knowledge in the field of polymer modification and technology to obtain particular products for particular application								
Learning outcomes	Course outcome Subject outcome Method of verification								
	K7_U07					[SU2] Assessment of ability to analyse information			
	K7_W06		can propose a way to obtain specific modifications of macromolecular compounds			[SW1] Assessment of factual knowledge			
Subject contents	Radical polymerization, polycondensation and anionic or cationc polymerization, coordination polymerization - steps, raw materials, catalysts, initiators. Copolymer types. Polymer fibres, polymers with inhanced thermal stability, degradibility. Polymers in medicine and new generation of polymers. Conductive polymers. The liquid crystalline polymers, modification of natural polymers								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Lecture - written exam		60.0%		60.0%				
	Laboratory		60.0%			40.0%			
Recommended reading	nded reading Basic literature			1. Gruin I.: Materiały polimerowe, PWN, W-wa 20032. Florjańczyk Z., Penczek S.: Chemia polimerów, Oficyna Wydawnicza Politechniki Warszawskiej, W-wa 19953. Nicholson J. W., Chemia polimerów, WNT, W-wa 1996 4. Shan Wang, Krzysztof Matyjaszewski, Controlled/"living" radical polymerization. atom transfer radical polymerization in the presence of transition-metal complexes, J. Am. Chem. Soc., 1995, 117, (20), pp 5614–5615.					
			5. Journals: Polymer Krzysztof Matyjaszewski, Controlled/"living" radical polymerization. atom transfer radical polymerization in the presence of transition-metal complexes, J. Am. Chem. Soc., 1995, 117, (20), pp 5614–5615.						

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	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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