



## Subject card

Subject name and code	CHEMISTRY AND TECHNOLOGY OF POLYMERS, PG_00049358						
Field of study	Chemical Technology						
Date of commencement of studies	October 2022		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	Full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Polymers Technology -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Justyna Kucińska-Lipka				
	Teachers		dr hab. inż. Justyna Kucińska-Lipka				
			dr hab. inż. Michał Strankowski				
			dr inż. Maciej Sienkiewicz				
			dr inż. Marcin Włoch				
			Przemysław Gnatowski				
			Edyta Piłat				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	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 didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		5.0		40.0	75
Subject objectives	The aim of the course is to familiarize students with methods of obtaining and modifying polymers and their processing technologies.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_U07		The student knows what processing methods should be used depending on the type and application of polymers		[SU3] Assessment of ability to use knowledge gained from the subject		
	K6_W09		The student is able to select the method of preparation and processing depending on the technological properties of polymers		[SW1] Assessment of factual knowledge		
Subject contents	During the lectures, the following will be presented: 1. Polymerization reaction methods 2. Modification of polymers 3. Polymers and plastics 4. Application of polymers in industry - medicine -pharmacy -automotive - construction 5. Plastics processing methods: -3D printing -injection -embossing -thermoforming						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
			60.0%		40.0%		
			60.0%		60.0%		
Recommended reading	Basic literature		- G. Odian, Principles of Polymerization, John Wiley & Sons, 2004 - G. Moad, D.H. Solomon, The Chemistry of Free Radical Polymerization				

	Supplementary literature	- G. Odian, Principles of Polymerization, John Wiley & Sons, 2004 - G. Moad, D.H. Solomon, The Chemistry of Free Radical Polymerization
	eResources addresses	Adresy na platformie eNauczanie: 2024 Chemia i Technologia Polimerów - Moodle ID: 37185 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37185">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37185</a>
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	