



## Subject card

Subject name and code	, PG_00039722						
Field of study	Materials Engineering, Materials Engineering, Materials Engineering, Materials Engineering						
Date of commencement of studies	October 2020		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	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		exam		
Conducting unit	Department of Polymers Technology -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Michał Strankowski				
	Teachers		dr hab. inż. Michał Strankowski				
			dr hab. inż. Łukasz Piszczyk				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0	0.0	60
	E-learning hours included: 0.0						
	Address on the e-learning platform: <a href="https://teams.microsoft.com/l/meetup-join/19%3aVm_y9XecZzw92HJgRcVPPXi4kA34OwLMhFfP4Jji1Xs1%40thread.tacv2/1629112932155?context=%7b%22Tid%22%3a%2286760356-0022-486f-b793-a2d470bba5a5%22%2c%22Oid%22%3a%22a341d16c-97c6-4f63-a523-16e23d4c5ce5%22%7d">https://teams.microsoft.com/l/meetup-join/19%3aVm_y9XecZzw92HJgRcVPPXi4kA34OwLMhFfP4Jji1Xs1%40thread.tacv2/1629112932155?context=%7b%22Tid%22%3a%2286760356-0022-486f-b793-a2d470bba5a5%22%2c%22Oid%22%3a%22a341d16c-97c6-4f63-a523-16e23d4c5ce5%22%7d</a>						
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	60		2.0		13.0	75
Subject objectives	The aim of the course is to present students with issues related to the polymer structure and its influence on the macroscopic properties of polymer materials.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_U06		Students will skillfully interpret and formulate conclusions related to plastic structure problems.		[SU2] Assessment of ability to analyse information		
	K6_K01		Students will demonstrate knowledge of polymer issues and be able to perform tasks related to plastics problems.		[SK5] Assessment of ability to solve problems that arise in practice		
	K6_U02		Students will demonstrate the ability to operate equipment used in the production and analysis of plastics.		[SU3] Assessment of ability to use knowledge gained from the subject		
	K6_W07		The student has skills related to the analysis of polymeric materials.		[SW1] Assessment of factual knowledge		
Subject contents	Basics characteristics and nomenclature of polymer macromolecules.  Types of polymer structures.  Structure analysis based on the properties of selected material groups.						
Prerequisites and co-requisites	Basic knowledge of the production and processing of polymeric materials.						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Passing the laboratory tests	50.0%	50.0%
	Passing the lecture tests	50.0%	50.0%
Recommended reading	Basic literature	Alfred Rudin Phillip Choi, Elements of Polymer Science & Engineering, Third Edition, 2013.  First Edition. Edited by Kantesh Balani, Vivek Verma, Arvind Agarwal, Roger Narayan. A Materials Science and Engineering Perspective, 2015 The American Ceramic Society.	
	Supplementary literature	brak	
	eResources addresses	Adresy na platformie eNauczanie: Struktura i właściwości materiałów polimerowych - Moodle ID: 31342 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31342">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31342</a>	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		