



Subject card

Subject name and code	Polymers processing technologies, PG_00039598						
Field of study	Materials Engineering, Materials Engineering, Materials Engineering						
Date of commencement of studies	February 2023		Academic year of realisation of subject		2022/2023		
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		5.0		
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 dr inż. Paulina Parcheta-Szwindowska dr inż. Marcin Włoch dr inż. Ewa Głowińska				
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						
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		5.0		60.0	125
Subject objectives	Understanding the method of processing and testing of polymeric materials. Analysis of problems with plastic processing.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K7_U01		Student uses the latest references about polymer processing.		[SU2] Assessment of ability to analyse information		
	K7_U04		The student uses basic techniques connected with data analysis. The student selects the appropriate techniques of polymer processing and production.		[SU2] Assessment of ability to analyse information		
	K7_W06		Student selects optimal conditions for polymer processing.		[SW1] Assessment of factual knowledge		
	K7_K01		Student extends his interests about polymer processing.		[SK2] Assessment of progress of work		
	K7_W01		The student interprets processing processes. The student determines the basic problems connected with the processing of plastics.		[SW1] Assessment of factual knowledge		

Subject contents	<ul style="list-style-type: none">- Physical basics of polymer processing.- Rules for selecting the type of processing according to the characteristics of the product and the type of material.- Special methods of plastic injection molding.- Influence of the injection molding technique on the properties of these materials.- Plastic additives.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Final test	50.0%	50.0%
	Laboratory	100.0%	50.0%
Recommended reading	Basic literature	-	
	Supplementary literature	-	
	eResources addresses	Adresy na platformie eNauczanie: Technologie przetwórstwa tworzyw polimerowych - Moodle ID: 29779 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29779	
Example issues/ example questions/ tasks being completed	Characterize advanced techniques of plastics processing. Describe the RHCM (Rapid Heat Cycle Molding) method. The most important types of plastic additives.		
Work placement	Not applicable		