



Subject card

Subject name and code	, PG_00065826						
Field of study	Materials Engineering						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies	Subject group			Specialty 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	2	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Department of Polymer Technology -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Michał Strankowski				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0	0.0	45
	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	45		5.0		50.0	100
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_W06] Knows the theoretical basics the functioning of scientific equipment in the fields of science and scientific disciplines relevant to materials engineering.		-		[SW1] Assessment of factual knowledge		
	[K7_W01] Has extended knowledge of the fields of science and scientific disciplines relevant to materials engineering, and their historical development and importance for the progress of exact and natural sciences, knowledge of the world and evolution of humanity.		-		[SW1] Assessment of factual knowledge		
	[K7_U04] Can undertake a detailed analysis of the obtained results and develop a technical report or presentation, also in English.		-		[SU2] Assessment of ability to analyse information		

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
	Laboratory	100.0%	50.0%
	Final test	50.0%	50.0%
Recommended reading	Basic literature	-	
	Supplementary literature	-	
	eResources addresses	Adresy na platformie eNauczenie: Technologie przetwórstwa tworzyw polimerowych - Moodle ID: 44067 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=44067	
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		

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