



## Subject card

Subject name and code	Polymer Composites and Mixtures, PG_00038555						
Field of study	Chemical Technology						
Date of commencement of studies	February 2022	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	2	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				
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						
Mieszaniny i kompozyty polimerowe - Moodle ID: 24450 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24450">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24450</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	30		5.0		40.0	75
Subject objectives	The aim of the course is to familiarize students with the methods of production and analysis of composite materials and polymer blends.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K7_U07		Student is able to design basic polymeric materials in terms of their specific properties.				
	K7_W06		The student is able to use knowledge of organic chemistry to understand issues related to multiphase polymeric materials.				
Subject contents	Polymer blends, polymer blends morphology, polymer blends investigation techniques  Polymer composites, nanofillers (carbon nanotubes, graphene, clays)  Polymer nanocomposites.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Lecture exam		60.0%		40.0%		
	Oral exam		60.0%		60.0%		
Recommended reading	Basic literature		Basic publications on polymer mixtures and composites based on the WoS database.				
	Supplementary literature		-				
	eResources addresses						
Example issues/ example questions/ tasks being completed	-						

Work placement	Not applicable
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