

## Subject card

Subject name and code	Polymeric modifiers of building materials, PG_00039133								
Field of study	Chemistry in Construction Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
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	2		Language of instruction			Polish Polish			
Semester of study	3		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Polymers Technology		y -> Faculty of Chemistry						
Name and surname	Subject supervisor		dr hab. inż. Lidia Jasińska-Walc						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory Project		t	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 i classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		5.0		15.0		50	
Subject objectives	The aim of the course is to present to the students all most important polymers which can be applied in civil engineering.								
Learning outcomes	Course outcome Subject outcome Method of verification						erification		
	K7_K03		The student understands the principles of sustainable development with concern for the environment.			[SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work [SK2] Assessment of progress of work [SK1] Assessment of group work skills			
	K7_U02		The student understands which types of polymers can be used in civil engineering, which properties can be achieved and how to analyze the properties of these materials.			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools			
	K7_W10		The student is able to select a polymeric material for basic structural purposes.			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Polymer chemistry and technology, analysis of polymers properties, application of the polymers as construction materials, recycling.								
Prerequisites and co-requisites	Knowledge of organic and polymer chemistry, technology and properties analysis of the polymers.								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	test, participation in the projects and team work		60.0% 100.0%						
Recommended reading	Basic literature	Chemia i technologia żywic epoksydowych - Z. Bończak							
		2. Chemia polimerów - J. Pielichowski, A. Puszyński							
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	Supplementary literature	Literature concerning polymers technology and application of the polymers - provided by the teacher during the course.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	- epoxy resin, polystyrene, polyurethanes- their application in civil engineering					
	- analysis of polymers properties					
Work placement	Not applicable					

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