

Subject card

Subject name and code	Exploitation of Polymeric Materials in Construction, PG_00052985								
Field of study	Chemistry in Construction Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2022/2023			
Education level	second-cycle studies		Subject group			Obligatory subject group 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			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Polymers Technology -> Faculty of Chemistry								
Name and surname	Subject supervisor		prof. dr hab. inż. Janusz Datta						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	0.0		15.0	30	
	E-learning hours inclu	i		<u> </u>				1	
Learning activity and number of study hours	Learning activity	arning activity Participation in classes includ plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		4.0				75	
Subject objectives	To gain the knowledge in polymer chemistry and technology as well as their practical applications in civil engineering.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	K7_U06		specific applications.			[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
	K7_U01		Student knows which polymers are curently applied in civil engineering, which are the curent trends in the field, how to solve basic construction problems using ceramics, polymers, metals, composites.			[SU2] Assessment of ability to analyse information			
	K7_W04		Student knows the technology and properties of the materials applied in civil engineering.			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
Subject contents	To gain the knowledge in polymer chemistry and technology as well as their practical applications in civil engineering.								
Prerequisites and co-requisites	Basic informations of polymer chemistry. Type of macromolecules that can be applied in technology. Polymer membranes for different applications. Biodegradable materials and their application, composites.								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Lecture		60.0%			60.0%			
	Seminar		100.0% 40.0%						
Recommended reading	Basic literature		Florjańczyk Z.: Chemia polimerów. Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 1995. Żuchowska I.: Polimery konstrukcyjne. WNT, Warszawa 1992						
	Supplementary literature		Polimery, Przemysł Chemiczny						
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	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Polyesters, polyolefins, epoxy resins	s, polyurethanes, composites, nanocomposites
Work placement	Not applicable	

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