

Subject card

Subject name and code	Development the Recyclable Waste in the Construction , PG_00052981								
Subject name and code Field of study	Chemistry in Construction Engineering								
Date of commencement of	February 2023	Academic year of			2022/2023				
studies	1 condary 2020		realisation of subject			2022/2023			
Education level	ducation level second-cycle studies		Subject group			Obligatory subject group in the field of study			
						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			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Faculty of Chemistry								
Name and surname	Subject supervisor	dr hab. inż. Anna Zielińska-Jurek							
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	15.0		0.0	30	
	E-learning hours inclu	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation i classes includ		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		9.0		36.0		75	
Subject objectives	aim of the course is to know about the development of secondary raw materials in the construction industry								
Learning outcomes	Course outcome		Subject outcome				Method of verification		
	K7_W01		has knowledge of examining the structure and texture of selected building materials and their physicochemical properties			[SW3] Assessment of knowledge contained in written work and projects			
	K7_U10		the student is able to propose technology and make a schematic diagram of a selected technology for the production of building materials from recycled materials			[SU3] Assessment of ability to use knowledge gained from the subject			
	K7_W04		the student has knowledge of obtaining and characterizing ceramic and polymer materials, concretes, and wood-based materials.			[SW3] Assessment of knowledge contained in written work and projects			
	K7_W05		has knowledge of the technology of resource management in construction, basic knowledge of the technology of production of building materials			[SW3] Assessment of knowledge contained in written work and projects			
	K7_U13		has knowledge of the basic legal regulations in the field of secondary raw materials management in construction			[SU2] Assessment of ability to analyse information			
Subject contents	Development of asphalt concrete rubble. The use of fly ash. The use of phosphogypsum. Development of steel scrap.								
Prerequisites and co-requisites	knowledge of chemistry and regulations in recycling								
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	project		60.0%			40.0%			
	written test		60.0%			60.0%	60.0%		

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Recommended reading	Basic literature	Chemia w inżynierii materiałów budowlanych. T.Szymura, ISBN: 978-83-62596-94-2, Politechnika Lubelska, 2012.				
	Supplementary literature	none				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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