

Subject card

Subject name and code	, PG_00062615							
Field of study	Civil Engineering							
Date of commencement of studies	October 2024		Academic year of realisation of subject		2024/2025			
Education level	first-cycle studies		Subject group					
Mode of study	Part-time studies		Mode of delivery		at the university			
Year of study	1		Language of instruction		Polish			
Semester of study	2		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Katedra Wytrzymałości Materiałów -> Faculty of Civil and Environmental Engineering							
Name and surname	Subject supervisor dr inż. Elżbieta Haustein							
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	15.0	0.0	10.0	0.0		0.0	25
	E-learning hours inclu	uded: 0.0						
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation i consultation h		Self-study		SUM
	Number of study hours	25		0.0	0.0			25
Subject objectives	Understanding the classification of building materials in terms of construction standards depends on the type and purpose of building							
Learning outcomes	Course out	Subject outcome			Method of verification			
	[K6_W06] Demonstrates practical knowledge and understanding of materials, devices and tools, processes and technologies in the field of civil engineering (and their limitations).		The student knows the basic properties of building materials and is able independently perform basic tests in accordance with contruction standards.			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_W02] Demonstrate knowledge and understanding of the processes and established methods of analysis / solution of engineering issues & problems in the field of civil engineering and of their limitations.		The student knows the priciples of analytical methods in building materials and uderstands the importance of their implementation.			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U05] Conducts research (obtaining information, simulations, experimental methods) in the field of construction in order to solve specific tasks and report research results.		The student will acquire skills in determining the basic proprties of Material and conducting their research.			[SU4] Assessment of ability to use methods and tools		
	[K6_U02] Analyse & solve engineering issues & problems in the field of civil engineering by applying appropriate and relevant established analytical, numerical and experimental methods.		Student uses appropriate analytical methods in selecting the type of building materials depending on their purpose.			[SU4] Assessment of ability to use methods and tools		
	[K6_U01] Apply knowledge and understanding of mathematics as well as sciences and engineering disciplines underlying civil engineering to solve engineering problems and issues.		The student will be able to recognize building materials depending on their type and purpose in construction.			[SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	Technical features of building materials. Ceramic building material. Products based on gypsum binders. Building glass properties and products used in construction. Wood and wood-based construction products used in contruction. Materials for thermal insulation and sound protection. Bitumen and artificial resin materials for moisture insulation. Plastics properties, classification, products, use in construction.							

Data wygenerowania: 18.12.2024 05:20 Strona 1 z 2

Prerequisites and co-requisites					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria		50.0%	50.0%		
		100.0%	50.0%		
Recommended reading	Basic literature	 Gantner E., Chojczak W. Building Materials. Binders, aggregates, mortars, concrete. Laboratory exercises. University of Technology, Warsaw 2013. Chojczak W. Building Materials. Technical properties, natural stone, ceramics. Laboratory exercises, part 1. Warsaw University of Technology, Warsaw 2016 Chojczak W. Building Materials. Wood, glass, bituminous binders, plastics. Laboratory exercises, part 2. University of Technology, Warsaw 2016 			
	Supplementary literature	1. Bołtryk M., Małaszkiwicz D., Orzepowski G. Building Materials. PWN. Warsaw 2022.			
	eResources addresses	ces addresses Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	 Provide classifications of building materials depending on type and purpose. Discuss the technical features of building materials. List the types of plastic construction products. Discuss the role of bitumen products in construction. Discuss the use of wood-like products for thermal insulation in construction. 				
Work placement	Not applicable				

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Data wygenerowania: 18.12.2024 05:20 Strona 2 z 2