

Subject card

Subject name and code	Building Materials , PG_00044000								
Field of study	Civil Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2022/2023			
Education level	first-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	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Building Structures and Material Engineering -> Faculty of Civil and Environmental Engineering								
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Michał Wójcik							
	Teachers		dr inż. Hubert Byliński						
			mgr inż. Sławomir Dobrowolski						
			mgr inż. Arkadiusz Jenta						
			mgr inż. Aleksander Grabowski						
			dr hab. inż. Michał Wójcik						
			,						
	dr inż. Jan Suchorzewski								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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 in classes include plan			Self-study S		SUM		
	Number of study hours	30		5.0		15.0		50	
Subject objectives	After the Building Materials course the student will be able to: memorize and define the physical and mechanical properties of the building materials and classify them to one of the basic group; explain the processes, which take place in the building materials; interpret and apply the standards concerning the quality and properties of building materials, apply various building materials.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W13] Knows the most popular construction materials and basics of technology of its fabrication		The student knows the most commonly used building materials and the basic elements of their production technology.						
	[K6_U12] knows rules of manufacturing and application of building materials, is able to properly choose tchem; is able to make simple laboratory experiments for judging quality of building materials		The student knows the rules of manufacture and use and is able to select construction materials; can perform simple laboratory experiments leading to the assessment of the quality of used building materials						
Subject contents	Technical properties of building materials. Natural stone materials. Ceramic building products. Lightweight aggregates, cavernous concrete, cellular concrete, foamed concrete. Products based on lime, Portland cement, and gypsum binders. Glass properties and products used in construction industry. Wood and wooden building products. Materials for thermal and sound insulation. Bituminous and plastic materials for damp proofing. Plastic properties, classification, products, usage in construction industry. Materials for protection against ionising radiation. Painting materials and various finishing materials.								
Prerequisites	Basic knowledge of p	hysics and che	emistry.						
and co-requisites									

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Written test.	50.0%	50.0%			
	Oral test	50.0%	50.0%			
Recommended reading	Basic literature	Lecture notes published on the website.				
	Supplementary literature	Stefańczyk B., <i>Budownictwo ogólne</i> , tom 1, Warszawa: Arkady 2005.				
		Szymański E., <i>Materiałoznawstwo budowlane z technologią betonu</i> , cz. 1. i 2., Warszawa: Oficyna Wydawnicza Politechniki Warszawskiej, 2005.				
		Żenczykowski W., <i>Budownictwo ogólne</i> , t. 1., Warszawa: Arkady, 1992.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Name the construction product, describe production technology and other materials used in its manufacture, specify its basic physical and mechanical properties and give its application in construction.					
Work placement	Not applicable					

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