

Subject card

Subject name and code	GENERAL BUILDING TECHNOLOGY I, PG_00052588								
Field of study	Architecture								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021			
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	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Techn	ical Fundamen	amentals of Architecture Design -> Faculty of Architecture						
Name and surname	Subject supervisor	dr inż. arch. Bogusława Konarzewska							
of lecturer (lecturers)	Teachers dr inż. arch. Bogusława Konarzewska								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	15.0	30.0	0.0	0.0		0.0	45	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie: General Building Technology I, 2020/21 - Moodle ID: 7591 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=7591								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		5.0		25.0		75	
Subject objectives	Student becomes acquainted with main buildling materials.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W01] knows and understands construction problems, building and engineering issues related to building design; principles, solutions, constructions and building materials used in simple engineering tasks in the field of architectural and urban design					[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
	[K6_U04] is able to use analytical methods to formulate and solve project tasks					[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task			

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Subject contents	Introduction. Classification of building materials and products used in architecture. The regulations concerning the particular application of building materials. Demands posed for building materials and products, general features characterizing building materials. General classification of building materials and products used in architecture: 1. Naturals and stones. 2. Woods and products of wood. 3. Ceramics. 4. Concrete. 5. Cements. 6. Glass and glass products. 7. Metals, metal alloys. 8. Isolating materials –termal and acqustic. 9. Material for damp and hydro isolation. 10. Paints. 11. Plastics. 12. Innovative building materials. 13. Building materials versus natural environments and the micro- environment the building. 14. Energy-efficient materials and technologies. Practical approach to building materials harmonizing with the lectures programme.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	design exercises	57.0%	35.0%				
	Exam	58.0%	65.0%				
Recommended reading	Basic literature	Zenczykowski W., Budownictwo ogolne t. 1: materialy i w budowlane, Arkady, Warszawa1992. Stefanczyk B., Budownictwo ogolne. t. 1 Materialy i wyrob budowlane / Arkady, Warszawa, 2010. E. Osiecka E., Materiały budowlane. Kamień - ceramika - OWPW 2010, Materiały budowlane. Spoiwa mineralne - k OWPW 2005, Materiały budowlane. Tworzywa sztuczne C Warszawa 2005.					
	Supplementary literature	 Panas J. Nowy poradnik majstra budowlanego. Arkady, Warszawa, 2005. Markiewicz M., Kształtowanie architektury, Wydawnictwo: Arch Plus 2006. Lewandowski Witold M. Proekologiczne odnawialne zrodla energii, Wydawnictwa Naukowo-Techniczne, Warszawa 2007. 					
	eResources addresses	Uzupełniające General Building Technology I, 2020/21 - Moodle ID: 7591 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=7591					
Evenue inquest		https://enauczanie.pg.edu.pi/moodi	e/course/view.pnp?id=7591				
Example issues/ example questions/ tasks being completed	Report from a visit to the constructio provide a comment, present to the g Acquaintance with the next generation building structures, individual drawin Drawing exercises on the use of spe	n site - characterize the materials us roup. on of thermal insulation materials, an g of details using these materials.	ed earlier in class, take pictures,				

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