

Subject card

Subject name and code	General Building Technology I, PG_00061503								
Field of study	Architecture								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
Education level	first-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			exam			
Conducting unit	Department of Technical Fundamentals 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 of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	et	Seminar	SUM	
	Number of study hours	15.0	30.0	0.0	0.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	arning activity Participation in classes included 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 buidling materials.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U04] is able to use analytical methods to formulate and solve project tasks		building materials, describes			[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task			
	[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		recognizes and classifies basic building materials, describes properties and indicates typical applications of basic building materials, knows energy-saving and environmentally friendly building solutions and materials			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			

Data wydruku: 13.05.2024 07:51 Strona 1 z 2

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 wyroby budowlane, Arkady, Warszawa1992. Stefanczyk B., Budownictwo ogolne. t. 1 Materialy i wyroby budowlane / Arkady, Warszawa, 2010. E. Osiecka E., Materiały budowlane. Kamień - ceramika - szkło OWPW 2010, Materiały budowlane. Spoiwa mineralne - kruszywa OWPW 2005, Materiały budowlane. Tworzywa sztuczne OWPW Warszawa 2005. 					
	Supplementary literature	Panas J. Nowy poradnik majstra budowlanego. Arkady, Warszawa, 2005. Markiewicz M., Kształtowanie architektury, Wydawnictwo: Archi- Plus 2006. Lewandowski Witold M. Proekologiczne odnawialne zrodla energii, Wydawnictwa Naukowo-Techniczne, Warszawa 2007.					
	eResources addresses	Adresy na platformie eNauczanie:					
	General Building Technology I 2023/2024 - Moodle ID: 337 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=3						
Example issues/ example questions/ tasks being completed	Report from a visit to the construction site - characterize the materials used earlier in class, take pictures, provide a comment, present to the group. Acquaintance with the next generation of thermal insulation materials, analysis of their applications within building structures, individual drawing of details using these materials. Drawing exercises on the use of specific building materials.						
Work placement	Not applicable						

Data wydruku: 13.05.2024 07:51 Strona 2 z 2