



Subject card

Subject name and code	General Building Technology I, PG_00061503						
Field of study	Architecture						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study		
Mode of study	Full-time studies		Mode of delivery		blended-learning		
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 Architectural Design -> Faculty of Architecture -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. arch. Bogusława Konarzewska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	30.0	0.0	0.0	0.0	45
	E-learning hours included: 15.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study 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 building materials.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U04] is able to use analytical methods to formulate and solve project tasks		is able to develop solutions for individual building elements in terms of materials; 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		[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment		
	[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		knows and understands construction issues, including key issues in architectural 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		[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation		

Subject contents	Course content – lecture 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. Grouts, mortars, aggregates 3. Concrete, cement 4. Ceramics 5. Glass and glass products. Practical approach to building materials harmonizing with the lectures programme.		
	Course content – exercises Practical familiarization with building materials according to the lecture schedule		
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	1. Zenczykowski W., Budownictwo ogolne t. 1: materiały i wyroby budowlane, Arkady, Warszawa1992. 2. Stefanczyk B., Budownictwo ogolne. t. 1 Materiały i wyroby budowlane /.. Arkady, Warszawa, 2010. 3. 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	1. Panas J. Nowy poradnik majstra budowlanego. Arkady, Warszawa, 2005. 2. Markiewicz M., Kształtowanie architektury, Wydawnictwo: Archi-Plus 2006. 3. Lewandowski Witold M. Proekologiczne odnawialne zrodla energii, Wydawnictwa Naukowo-Techniczne, Warszawa 2007.	
	eResources addresses		
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 materials, analysis of their applications within building structures, individual drawing of details using these materials. Drawing exercises on the use of specific building materials.		
Practical activites within the subject	Not applicable		

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