

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	Building Structures and Technologies for Architects, PG_00067336							
Field of study	Architecture							
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026		
Education level	second-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			English		
Semester of study	1		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department Of Building Engineering -> Faculty Of Civil And Environmental Engineering -> Wydziały Politechniki Gdańskiej							
Name and surname	Subject supervisor	prof. dr hab. inż. Jarosław Przewłócki						
of lecturer (lecturers)	Teachers	dr inż. Patryk Deniziak						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	20.0	15.0	0.0	0.0		0.0	35
	E-learning hours inclu	ided: 0.0						
Learning activity and number of study hours	Learning activity	vity Participation in c classes included plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	35		4.0		11.0		50
Subject objectives	Overview of various building structures and technologies along with structural design procedures of structural members.							
Learning outcomes	Course outcome Subject outcome Method of verification					fication		
	[K7_W01] knows and understands construction, building and engineering issues related to building design; principles, solutions, constructions and building materials used in performing complex engineering tasks in the field of architectural and urban design		The training outcomes include knowledge of various construction systems and solutions, their advantages and disadvantages, the ability to perform static and strength calculations, as well as general familiarization with specific techniques aimed at improving the safety of structures in relation to extreme impacts (e.g. earthquakes, etc.).			[SW2] Assessment of knowledge contained in presentation		
	[K7_W05] knows and understands issues related to architecture and urban planning in the context of the multi-discipline nature of architectural and urban design as well as the need to cooperate with other specialists; legal provisions and procedures necessary for the implementation of building designs and the integration of buildings with the overall planning project		The result is an introduction to issues related to architecture and urban planning in the context of the multi-disciplinary nature of architectural and urban design.			[SW2] Assessment of knowledge contained in presentation		
Subject contents	Overview of various building structures and technologies along with structural design procedures of structural members.							
Prerequisites and co-requisites								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade		
			60.0%			50.0%		
			60.0%			50.0%		

Recommended reading	Basic literature	<ol> <li>Edward Allen, Joseph Iano, Fundamentals of Building Construction: Materials and Methods, John Wiley&amp;Sons Inc.</li> <li>Andrea Deplazes, Constructing Architecture: Materials, Processes, Structures: a Handbook, Birkhäuser Publishers for Architecture.</li> </ol>
	Supplementary literature	Andrew Watts, <i>Modern Construction Handbook</i> , Birkhäuser Publishers for Architecture.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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