



Subject card

Subject name and code	Building structures and technologies I, PG_00052794						
Field of study	Architecture						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
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	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Technical Fundamentals Of Architectural Design -> Faculty Of Architecture -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. arch. Marek Sztafrowski				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
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	30		2.0		18.0	50
Subject objectives	Knowledge of technical issues related to the construction technical project.Knowledge of basic issues related to reinforced concrete and masonry structures, and relationsbetween loads and stresses and deformations in simple elements made of reinforced concrete.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U01] is able to use the experience gained during studies to critically analyze the conditions and formulate conclusions for design in an interdisciplinary context		Gainging knowledge of interdisciplinary design.		[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information		
	[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		Knowledge and understanding of: construction and building issues related to building design; principles, solutions, constructions and building materials applied to perform simple tasks in the field of architectural design.		[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		
Subject contents	Basic issues related to reinforced concrete and masonry structures.Pre-design works.Architectural, construction and technical design.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	exam		51.0%		100.0%		

Recommended reading	Basic literature	Panas J. red., Nowy poradnik majstra budowlanego, Arkady 2012. Żenczykowski W., Budownictwo ogólne, Warszawa, Arkady, 1986. Różycki S., Budownictwo ogólne 3-4, Gdańsk 1966 Budownictwo ogólne, T 1 Materiały i wyroby budowlane, Warszawa Arkady, 2007 Budownictwo ogólne, T 3 Elementy budynków. Podstawy projektowania, Warszawa Arkady, 2008 Budownictwo ogólne, T 4 Konstrukcja budynków, Warszawa Arkady, 2014 Łapko A.: Projektowanie konstrukcji żelbetowych, Arkady, Warszawa 2001 Łapko A., Jensen B. Ch.: Podstawy projektowania i algorytmy obliczeń konstrukcji żelbetowych, Arkady, Warszawa 2005. PNB-03264/2002 Konstrukcje betonowe, żelbetowe i sprężone. Obliczenia statyczne i projektowanie. PN-B-03002/1999 Konstrukcje murowe niezbrojone. Projektowanie i obliczenia statyczne.
	Supplementary literature	P. Hyks, M. Gaborik, O. Vrana, Schody, Arkady 1984 Markiewicz Przemysław, Budownictwo ogólne dla architektów, Archi-Plus 2011 (wyd. 4) Markiewicz Przemysław, Detale projektowe dla architektów, Archi-Plus 2010 (wyd. 1) Hoła J., Pietraszek P., Schabowicz K.: Obliczenia budynków wznoszonych tradycyjnie, Dolnośląskie Wydawnictwo Edukacyjne, Wrocław 2006. Starosolski W., Konstrukcje żelbetowe, Wydawnictwo Naukowe PWN, W-wa 2007. Kobiak J., Stachurski W.: Konstrukcje żelbetowe, Arkady, Warszawa 1984.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Use of technology in architectural design, related to the construction and technical design.	
Work placement	Not applicable	

Document generated electronically. Does not require a seal or signature.