GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Building Construction, PG_00062070		
Field of study	Budownictwo ogólne I		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
Education level	first-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	5.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Building Structures and Material Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Michał Nitka	
	Teachers	dr inż. Aleksander Grabowski mgr inż. Patryk Chodkowski dr inż. Maciej Lewandowski-Szewczyk mgr inż. Jakub Schönnagel dr inż. Karol Rejowski	

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	30.0	0.0	60
	E-learning hours included: 0.0						
	eNauczanie source address: https://enauczanie.pg.edu.pl/2025/course/view.php?id=1842 Moodle ID: 1842 Budownictwo ogólne I (2025) https://enauczanie.pg.edu.pl/2025/course/view.php?id=1842						

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	60	0.0	0.0	60

Subject objectives
The aim of the course Budownictwo Ogólne I is to introduce students to the fundamental issues related to general construction, including the behavior of structures, types of loads, individual structural elements, and building materials. Additionally, attention is given to common design and construction errors, as well as to the overall course of the building process. During the design classes, students learn the principles of technical drawing both reading and creating drawings. They independently prepare architectural and structural drawings, including plans, sections, and detailed drawings.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W04] Knows the rules of descriptive geometry and technical drawing for preparing and reading architectural, construction and geodetic drawings; also with the use of CAD	Knows the principles of descriptive geometry and technical drawing related to the creation and interpretation of architectural and construction drawings, including the use of CAD software.	[SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym
[K6_W03] Demonstrate knowledge and understanding of the processes, established standards and design methods in the civil engineering subject area and of their limitations.	The student possesses basic knowledge in the field of construction, including the types of structures and their behavior, individual structural elements, and building materials. The student should develop the ability for self-directed learning, be able to obtain information from literature, databases, and other sources, and effectively use information technologies and online resources. The student is capable of integrating acquired information, interpreting it, drawing conclusions, as well as formulating and justifying opinions.	[SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym
[K6_U04] Reads and prepares construction documentation (including drawings, graphic documentation in the CAD environment), efficiently uses maps as well as architectural, construction and geodetic drawings.	The student is able to read and prepare construction documentation (including drawings and graphic documentation in a CAD environment) and is proficient in using architectural and construction drawings.	[SU1] Ocena realizacji zadania [SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu [SU5] Ocena umiejętności zaprezentowania wyników realizacji zadania
[K6_U03] Design engineering objects and details, processes and engineering systems by applying appropriate standards and methods of design.	Designs buildings and construction details, as well as building processes and systems, applying appropriate standards and design methods.	[SU1] Ocena realizacji zadania [SU2] Ocena umiejętności analizy informacji [SU5] Ocena umiejętności zaprezentowania wyników realizacji zadania [SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu [SU4] Ocena umiejętności korzystania z metod i narzędzi

Subject contents

Course content – lecture
The lectures are thematically divided into sections: introduction (scope of the course, basic concepts and classifications), construction process, building law, basic structural systems, walls and masonry, lintels, floors (including ribbed slabs), and flat roofs.

Course content – project
The design component involves producing 8 architectural and construction drawings, including details (plans, sections, etc.). All drawings will be created using CAD technology, except for the first one, which will be done by hand.

Prerequisites and co-requisites

The student should complete classes in AutoCAD drawing.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Defense of the project	60.0%	50.0%
exam	60.0%	50.0%

Recommended reading

Basic literature	none
Supplementary literature	none
eResources addresses	

Example issues/ example questions/ tasks being completed

- Architectural and structural drawings of the building;
- Drawings of structural and non-structural elements;
- Theoretical topics, including definitions, building law, terminology, etc.

Practical activites within the subject

Not applicable

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