



Subject card

Subject name and code	Fundamentals of buildings, PG_00058789						
Field of study	Podstawy budownictwa						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group		Optional 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		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Engineering Structures -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Maciej Lewandowski-Szewczyk				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	15.0	0.0	45
	E-learning hours included: 0.0						
	eNauczanie source addresses: Moodle ID: 1764 Budownictwo ogólne i Podstawy Budownictwa IŚ 2025/2026 https://enauczanie.pg.edu.pl/2025/course/view.php?id=1764						
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		6.0		50.0	101
Subject objectives	The aim of the course "Podstawy Budownictwa" is to acquaint students with basic issues related to general construction: structural work, loads, individual structural elements, construction materials, etc. Additionally, attention is given to design and execution errors as well as the entire course of the construction process. During the exercises, students learn technical drawing (both drawing and reading) and basic structural calculations.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U01] has the ability to self-education, can obtain information from literature, databases and other sources, uses information technology, Internet resources; can integrate the obtained information, make their interpretation, as well as draw conclusions and formulate and justify opinions		The student should acquire the ability for self-education, be able to gather information from literature, databases, and other sources, use information technology and internet resources. They should integrate acquired information, interpret it, draw conclusions, and formulate and justify opinions.		[SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu		
	[K6_U06] knows and applies the basic provisions of construction law, water law and environmental law		The student is familiar with and applies the basic regulations of construction law, water law, and environmental protection law.		[SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu		
	[K6_W08] has elementary knowledge of construction: including building materials, their strength, construction mechanics and building physics, moisture migration in buildings, heat transfer through building partitions		The student possesses elementary knowledge in the field of construction, including construction materials, their strength, structural mechanics, and the physics of structures, as well as moisture migration in buildings and heat penetration through building partitions.		[SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym		

Subject contents	Course content – lecture		
	The lectures are thematically divided into sections: introduction (what will be covered, basic concepts, and divisions), the construction process, construction law, loads acting on the structure, walls and partitions, materials for walls, foundations, roofs, lintels, and general properties of construction materials.		
	Course content – project		
	The project involves creating 3-4 technical drawings (floor plans, slab construction, cross-sections) and 2 static and strength calculations.		
Prerequisites and co-requisites	The student is required to complete AutoCAD drawing classes.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	finished project	50.0%	35.0%
	progress update	50.0%	35.0%
	final test from lectures	50.0%	30.0%
Recommended reading	Basic literature	none	
	Supplementary literature	none	
	eResources addresses		
Example issues/ example questions/ tasks being completed	- structural drawings of the building		
	- design calculations of the building elements - short answers to questions from lectures		
Practical activities within the subject	Not applicable		

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