



Subject card

Subject name and code	Building Construction, PG_00062070							
Field of study	Civil Engineering							
Date of commencement of studies	October 2023		Academic year of realisation of subject		2024/2025			
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 Engineering Structures -> Faculty of Civil and Environmental Engineering							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Michał Nitka					
	Teachers		dr inż. Maciej Lewandowski-Szewczyk					
			mgr inż. Jakub Schönnagel					
			dr inż. Karol Rejowski					
			dr hab. inż. Michał Nitka					
Lesson types and methods of instruction	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							
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	<p>The objective of the "Budownictwo Ogólne I" course is to familiarize students with fundamental aspects 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 construction process.</p> <p>During the practical exercises, students learn technical drawing (both drawing and reading). They independently create architectural and structural drawings, including plans, cross-sections, details, etc</p>							

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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 can read and create construction documentation, including drawings and graphical documentation in CAD environment. They are proficient in interpreting architectural and construction drawings.	[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment
	[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 of construction, including types of structures, their functioning, individual structural elements, and construction materials. The student is expected to acquire the ability for self-education, gather information from literature, databases, and other sources, utilize information technology and online resources, integrate acquired information, interpret it, draw conclusions, and formulate and justify opinions.	[SW3] Assessment of knowledge contained in written work and projects
	[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	The student is familiar with the principles of descriptive geometry and technical drawing, including recording and interpreting architectural and construction drawings, as well as utilizing CAD software.	[SW3] Assessment of knowledge contained in written work and projects
	[K6_U03] Design engineering objects and details, processes and engineering systems by applying appropriate standards and methods of design.	The student designs structures and details in construction, as well as building processes and systems, employing appropriate standards and design methods.	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
Subject contents	<p>The course is divided into lectures and design exercises. The lectures are thematically organized into sections: introduction (overview of the course content, basic concepts, and divisions), construction process, construction law, basic structural systems, walls, lintels, various types of ceilings including dense ribbed ones, and roof structures.</p> <p>The practical exercises involve creating 8 architectural and construction drawings along with details (floor plans, cross-sections, etc.). The drawings will be created using CAD technology, except for the first one, which will be done manually.</p>		
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	60.0%	25.0%
	exam	60.0%	50.0%
	progress update	60.0%	25.0%
Recommended reading	Basic literature	none	
	Supplementary literature	none	
	eResources addresses	Adresy na platformie eNauczanie: Budownictwo Ogólne I (wykład+projektowanie) 2024/2025 - Moodle ID: 42202 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=42202	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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