GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Building Construction, PG_00062070		
Field of study	Civil Engineering		
Date of commencement of studies	October 2022	Academic year of realisation of subject	2023/2024
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 hab. inż. Michał Nitka dr inż. Aleksander Grabowski mgr inż. Patryk Chodkowski dr inż. Maciej Lewandowski-Szewczyk mgr inż. Jakub Schönnagel dr inż. Karol Rejowski	

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	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. 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

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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.	[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools
[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_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_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.	[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task

Subject contents

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.

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.

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
progress update	60.0%	25.0%
exam	60.0%	50.0%
finished project	60.0%	25.0%

Recommended reading

Basic literature	none
Supplementary literature	none
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed

Work placement

Not applicable

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