GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	General Construction II, PG_00062606		
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	4	ECTS credits	4.0
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. Jarosław Florczuk mgr inż. Aleksander Grabowski dr hab. inż. Ireneusz Marzec mgr inż. Maciej Solarczyk dr inż. Anna Kopańska 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	The aim of the "Budownictwo Ogólne II" course is to familiarize students with the basic issues related to general construction: structure operation, loads, individual construction elements, building materials, etc. Additionally, attention is paid to design and implementation errors as well as the entire construction process. During project, students learn technical drawing (drawing and reading) and basic construction calculations.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W06] Demonstrates practical knowledge and understanding of materials, devices and tools, processes and technologies in the field of civil engineering (and their limitations).	The student has elementary knowledge of construction: including building materials, their strength, construction mechanics and building physics, moisture migration in buildings, and heat transfer through building partitions	[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 is able to make a technical drawing, including details. He can also perform basic strength calculations of structural elements based on standards.	[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools
[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 should acquire the ability to self-educate, be able to obtain information from literature, databases and other sources, use information technologies and Internet resources; be able to integrate the information obtained, interpret it, and draw conclusions and formulate conclusions.	[SW1] Assessment of factual knowledge [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 learned how to make and read technical drawings (also in the CAD environment). The student should acquire the ability to make and read architectural drawings and details of solutions.	[SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task

Subject contents

The subject is divided into lectures and design. The lectures are divided thematically into sections: introduction (what we will deal with, basic concepts and divisions), loads acting on the structure, foundations, insulation, walls and walls, footings, footings, roofs, lintels, balconies and building materials (general properties). The project involves preparing two technical drawings (foundations and ceiling) and static and strength calculations of selected structural elements (ceilings, footings, lintels, walls, foundations).

Prerequisites and co-requisites

The student should complete drawing classes in AutoCad.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
	50.0%	25.0%
	50.0%	25.0%
	50.0%	50.0%

Recommended reading

Basic literature	European Norms
Supplementary literature	not applicable
eResources addresses	Adresy na platformie eNauczanie: Budownictwo ogólne II (wykłady + projekt) 2024 - Moodle ID: 25315 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=25315

Example issues/ example questions/ tasks being completed

Work placement

Not applicable

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