GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Fundamentals of buildings, PG_00058789		
Field of study	Environmental Engineering		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2024/2025
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		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Michał Nitka	
	Teachers	dr inż. Maciej Lewandowski-Szewczyk mgr inż. Patryk Chodkowski	

Lesson types and methods of instruction

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

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_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.	[SU5] Assessment of ability to present the results of task
[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] Assessment of ability to use knowledge gained from the subject
[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] Assessment of knowledge contained in written work and projects

Subject contents

The course is divided into lectures and exercises (design). 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. Later, students give presentations on assigned topics. The exercises involve creating 3-4 technical drawings (floor plans, ceilings, cross-sections) and 2 static-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
progress update	50.0%	40.0%
presentation	50.0%	20.0%
finished project	50.0%	40.0%

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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