GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00064624		
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	Part-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	assessment
Conducting unit	Department of Engineering Structures -> Faculty of Civil and Environmental Engineering		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Ewelina Korol	
	Teachers		

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	20.0	0.0	0.0	20.0	0.0	40

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	40	0.0	0.0	40

Subject objectives

Acquiring knowledge in the field of design and construction of buildings, in particular residential construction. Acquisition of knowledge in the field of running and managing construction works. Acquaintance with technologies and principles of construction organization, computer techniques and modern technologies. Develop the ability to identify significant problems related to the construction industry. Preparation of the graduate to work in independent positions and teamwork and education at the second degree of study

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 make necessary technical drawings: architectural and constructional in CAD environment	[SU4] Assessment of ability to use methods and tools
[K6_U03] Design engineering objects and details, processes and engineering systems by applying appropriate standards and methods of design.	The student knows the rules of constructing and designing structural elements made of: metal, reinforced concrete, wood, bricks	[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 can design selected elements and typical masonry, reinforced concrete and steel structures, based on applicable eurocodes	[SW1] Assessment of factual knowledge

Subject contents

The lectures present the content related to the polish construction rules and technical conditions. Then, current knowledge about the techniques of building objects is presented, commonly used building materials and types of structural systems.

The project contains of a set of architectural and construction drawings for a residential multi-family building with masonry walls and prefabricated ceilings, in CAD technology.

Prerequisites and co-requisites

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	test	60.0%	50.0%
	project	60.0%	50.0%
Recommended reading	Basic literature	1. Kobiak J., Stachurski W.: Konstrukcje żelbetowe t.1 Warszawa: Arkady 1984. 2. Michalak H., Pyrak S., Domy jednorodzinne konstruowanie i obliczenia: Arkady 2005. 3. Niedostatkiewicz M., Majewski T., Skuza M., Bobiński J.: Budownictwo ogólne Katalog rozwiązań konstrukcyjno materiałowych, Skrypt PG. 4. Pierzchlewicz J., Jarmontowicz R.: Budynki murowane. Warszawa: Arkady 1994	
	Supplementary literature	1. Żenczykowski W.: Budownictwo ogólne, t. 2/1. Warszawa: Arkady 1990 2. Praca zbiorowa: Poradnik majstra budowlanego. Warszawa: Arkady 1985. 3. Praca zbiorowa: Poradnik inżyniera i technika budowlanego, t. V. Warszawa: Arkady 1986. 4. Prawo budowlane	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Sample questions for credit:1) Design the arrangement of the ceiling beams for the longitudinal and transverse structural system2) Draw the detail of the attica and cornice3) Draw and dimension the ventilation, exhaust and smoke pipes		
Work placement	Not applicable		

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