GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00062077		
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	Obligatory subject group in the field of study
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	6.0
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	dr hab. inż. Ewelina Korol	

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 designing and building general construction facilities, in particular residential construction; Acquiring knowledge in the field of conducting and managing construction works; Getting acquainted with technologies and principles of construction organization, computer techniques and modern technologies; Developing the ability to identify significant problems related to the construction industry; Preparing graduates to work independently, as well as to work in teams and to pursue second-cycle studies

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 knows the principles of constructing and dimensioning elements of building structures: metal, reinforced concrete, wood, masonry	[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 is able to design selected elements and typical masonry, reinforced concrete and steel structures based on applicable Eurocodes	[SW1] Assessment of factual knowledge
[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 is able to make the necessary technical drawings: architectural and construction in the CAD environment	[SU4] Assessment of ability to use methods and tools

Subject contents

The lectures initially present content related to applicable construction law and technical conditions. Then, current knowledge about building construction techniques, commonly used building materials and types of structural systems is presented.

The project involves the preparation of a set of architectural and construction drawings for a multi-family residential building with brick walls and prefabricated high-ribbed ceilings, using the CAD technique.

Prerequisites and co-requisites

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	60.0%	50.0%
	Test	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			
Work placement	Not applicable		