GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Building Construction, PG_00048187		
Field of study	Civil Engineering		
Date of commencement of studies	October 2021	Academic year of realisation of subject	2023/2024
Education level	first-cycle studies	Subject group	Optional subject group
Mode of study	Part-time studies	Mode of delivery	at the university
Year of study	3	Language of instruction	Polish
Semester of study	5	ECTS credits	7.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Building Structures and Material Engineering -> Faculty of Civil and Environmental Engineering		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Maciej Niedostatkiewicz	
	Teachers		

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	10.0	0.0	15.0	0.0	55

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	55	7.0	113.0	175

Subject objectives

Acquisition of knowledge in the field of construction of housing and communal construction facilities and the basics of designing facilities and construction works, as well as managing construction works; getting acquainted with technologies and principles of construction organization, computer techniques and modern technologies; developing the ability to identify significant problems in the construction industry; preparing a graduate to work in independent positions as well as team work and education at the second degree of studies.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W12] Has basic knowledge on building physics, including heat and moisture migration in buildings, acoustics and energy demand	The student knows the basics of building physics regarding the migration of heat and moisture in buildings, their acoustics and determining the energy demand of buildings.	
[K6_U06] can design steel, concrete (including reinforced), wood and masonry construtions and its elements	The student can design selected elements and typical metal, reinforced concrete, composite, wooden and brick structures.	
[K6_U09] can read architectural, geodetical and construction drawings, is able do prepare engineering drawing using selected CAD software	The student can read architectural, construction and geodetic drawings and is able to prepare graphic documentation in the environment of selected CAD programs.	
[K6_W06] knows the rules of constructing and dimensioning of building elements of: steel, reinforced concrete, wood, masonry.	The student knows the principles of constructing and dimensioning the elements of building structures: metal, reinforced concrete, wooden, masonry.	

Subject contents

Basic knowledge of law in construction. Basic definitions of general construction. Requirements for building and construction drawings. Structural systems. Dimensional coordination in buildings. Basic information about technical conditions for buildings and their location. Initial information about walls, window and door lintels, ceilings, flat roofs, terraces, balconies, loggias and stairs.

Prerequisites and co-requisites

Completion of the course General construction with building physics II.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Exam	60.0%	50.0%
Term work	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	