

GDAŃSK UNIVERSITY

Subject card

Subject name and code	Construction and Physics of Building Structures, PG_00044686								
Field of study	Civil Engineering								
Date of commencement of studies			Academic year of realisation of subject			2021/2022			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific			
						research in the field of study			
Mode of study			Mode of delivery			at the university			
Year of study			Language of instruction			Polish			
Semester of study			ECTS credits			5.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Building Structures and Material Engineering -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor		mgr inż. Maria Krogulecka						
of lecturer (lecturers)	Teachers		Testavial	Laboratoria	Desta				
Lesson types and methods of instruction	Lesson type Number of study hours	Lecture 20.0	Tutorial 0.0	Laboratory 0.0	Projec 10.0	t	Seminar 0.0	SUM 30	
	E-learning hours inclu	l Ided: 0.0							
	Adresy na platformie eNauczanie: Budownictwo ogólne z fizyką budowli I - 21/22 - Moodle ID: 17574 https://enauczanie.pg.edu.pl/moodle/ course/view.php?id=17574								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study S		SUM	
	Number of study hours	30		5.0 90.0		90.0		125	
Subject objectives	Acquiring knowledge in the construction of residential and communal buildings, as well as the basics of designing buildings and construction works, managing construction works; acquainting with technologies and principles of building organization, computer techniques and modern technologies; developing the ability to identify significant problems in the construction industry; preparing the graduate for work as independent as well as in a team and education at the second level of studies.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	and moisture migration in buildings, acoustics and energy demand		The student knows the basics of building physics regarding heat and moisture migration in buildings, their acoustics and determining the energy demand of buildings						
	[K6_U08] can calculate the energy		The student can prepare an energy balance of a building.						
	industrial, bridge, water, marine, transport objects) and rules of its		The student knows the rules for determining the loads of selected construction objects (general, industrial, bridge, water and sea construction or transportation) and the principles of their construction design.						
	[K6_U06] can design steel, concrete (including reinforced), wood and masonry construtions and its elements		The student knows how to design selected elements and typical metal, reinforced concrete, composite, wooden and wall constructions						
	[K6_W06] knows the rules of constructing and dimensioning of building elements of: steel, reinforced concrete, wood, masonry.		The student knows the principles of construction and dimensioning of building construction elements: such as metal, reinforced concrete, wooden, and masonry.						

Subject contents	 Basic knowledge of the construction law. Basic definitions of general construction. Requirements for construction and construction drawings. Construction systems. Dimensional coordinates in buildings. Basic knowledge about technical conditions for buildings and their location. Preliminary information of walls, window's and door lintels, ceilings, roofs, terraces, balconies, loggias and stairs. 					
Prerequisites and co-requisites	Basic knowledge about technical drawing, building materials, building mechanics and material strength.					
Assessment methods and criteria						
	Subject passing criteria	Passing threshold 60.0%	Percentage of the final grade 50.0%			
	Project Tests					
Recommended reading	Basic literature	60.0% 50.0% 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	Budownictwo ogólne z fizyką budowli I - 21/22 - Moodle ID: 17574 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17574				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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