



Subject card

Subject name and code	Building Construction, PG_00048187						
Field of study	Civil Engineering						
Date of commencement of studies	October 2020		Academic year of realisation of subject		2022/2023		
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 Niedostatkiwicz				
	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_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.				
	[K6_U09] can read architectural, geodetical and construction drawings, is able to 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_U06] can design steel, concrete (including reinforced), wood and masonry constructions and its elements		The student can design selected elements and typical metal, reinforced concrete, composite, wooden and brick structures.				
	[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.				
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		
	Term work		60.0%		50.0%		
	Exam		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. Niedostatkiwicz 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	