GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Bulilding structures and technologies I, PG_00052633		
Field of study	Architecture		
Date of commencement of studies	October 2021	Academic year of realisation of subject	2022/2023
Education level	first-cycle studies	Subject group	Obligatory subject group in the field of study
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	English
Semester of study	4	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Technical Fundamentals of Architectural Design -> Faculty of Architecture		
Name and surname of lecturer (lecturers)	Subject supervisor	mgr inż. Tomasz Zybała	
	Teachers	mgr inż. Tomasz Zybała dr Najmeh Hassas	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	0.0	0.0	30

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	30	2.0	18.0	50

Subject objectives

To learn about the technical issues involved in producing an architectural design.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U01] is able to use the experience gained during studies to critically analyze the conditions and formulate conclusions for design in an interdisciplinary context	The student is able to use the experiences gained during the course of study in order to critically analyse conditions and to formulate conclusions for design in an interdisciplinary context	[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task
[K6_W01] knows and understands construction problems, building and engineering issues related to building design; principles, solutions, constructions and building materials used in simple engineering tasks in the field of architectural and urban design	The student knows and understands the problems of construction, building and engineering problems associated with building design; principles, solutions, constructions and construction materials used in carrying out simple engineering tasks engineering tasks in architectural and urban planning	[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects

Subject contents

Basic types of building structures, subdivision, definitions.Basic issues related to reinforced concrete and masonry structures.Selected issues of fire safety regulations.Finishing work.Building elements e.g. stairs, façade systems and claddings, glazed walls, curtain walls, suspended ceilings, floors and flooring, etc.suspended ceilings, floors and flooring, etc.Relationship between load and stress and strain in reinforced concrete elements.

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="2">Knowledge of general construction and materials science</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>test</td><td>60.0%</td><td>80.0%</td></tr>
<tr><td>presentation</td><td>60.0%</td><td>20.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Panas J. red., Nowy poradnik majstra budowlanego, Arkady 2012

Żenczykowski W., Budownictwo ogólne, Warszawa, Arkady, 1986.

Różycki S., Budownictwo ogólne 3-4, Gdańsk 1966 Budownictwo ogólne, T 1 Materiały i wyroby budowlane, WarszawaArkady, 2007 Budownictwo ogólne, T 3 Elementy budynków. Podstawy projektowania, Warszawa Arkady, 2008 Budownictwo ogólne, T 4 Konstrukcja budynków, Warszawa Arkady,2014

Łapko A.: Projektowanie konstrukcji żelbetowych, Arkady, Warszawa2001

Łapko A., Jensen B. Ch.: Podstawy projektowania i algorytmy obliczeń konstrukcji żelbetowych, Arkady, Warszawa 2005</td></tr>
<tr><td>Supplementary literature</td><td>P. Hyks, M. Gaborik, O. Vrana, Schody, Arkady 1984

Markiewicz Przemysław, Budownictwo ogólne dla architektów, Archi-Plus 2011 (wyd. 4)

Markiewicz Przemysław, Detale projektowe dla architektów, Archi-Plus2010 (wyd. 1)

Hoła J., Pietraszek P., Schabowicz K.: Obliczenia budynków wznoszonych tradycyjnie, Dolnośląskie Wydawnictwo Edukacyjne,Wrocław 2006.

Starosolski W., Konstrukcje żelbetowe, Wydawnictwo Naukowe PWN,W-wa 2007.

Kobiak J., Stachurski W.: Konstrukcjeżelbetowe, Arkady,Warszawa 1984.</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:
Building structures and technologies I / CONSTRUCTION PROJECT II - Moodle ID: 30243
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30243</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">1. Main stair shape / steps finishing (give examples of materials)
2. Reasons for using suspended ceilings / types of suspended ceilings
3. Why do we make partition walls?
4. Partition walls construction types.</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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