GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Basics of Civil Engineering, PG_00047995		
Field of study	Environmental Engineering		
Date of commencement of studies	October 2021	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	2	Language of instruction	Polish
Semester of study	4	ECTS credits	4.0
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 of lecturer (lecturers)	Subject supervisor	dr hab. inż. Ewelina Korol	
	Teachers		

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	15.0	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	5.0	70.0	105

Subject objectives

The aim of this subject is to introduce to students the basic issues related to general construction: construction work, loads, individual elements of the structure, building materials, etc. In addition, attention is paid to design and execution errors and the entire construction process. During the project lessons, students learn technical drawing (drawing and reading) and basic construction calculations. .

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U01] has the ability to self-education, can obtain information from literature, databases and other sources, uses information technology, Internet resources; can integrate the obtained information, make their interpretation, as well as draw conclusions and formulate and justify opinions	The student should acquire the ability to self-study, be able to obtain information from literature, databases and other sources, use information technology, Internet resources; be able to integrate the obtained information, interpret it, draw conclusions and formulate and justify opinions	[SU3] Assessment of ability to use knowledge gained from the subject
[K6_W08] has elementary knowledge of construction: including building materials, their strength, construction mechanics and building physics, moisture migration in buildings, heat transfer through building partitions	The student has elementary knowledge in the field of construction: including building materials, their strength, structural mechanics and building physics, moisture migration in buildings, heat transfer through building partitions	[SW1] Assessment of factual knowledge
[K6_U06] knows and applies the basic provisions of construction law, water law and environmental law	The student knows and applies the basic provisions of construction law, water law and environmental law	[SU3] Assessment of ability to use knowledge gained from the subject

Subject contents

Introduction to construction, including polish construction law and technical conditions. Overview of building materials, structural systems and building technology. Designing building partitions, taking into account thermal insulation and fire resistance. Design and construction of walls, ceilings, lintels, arches, arches, chimneys.

Prerequisites and co-requisites

The student should finish the AutoCad course.

<table>
<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>finished project</td><td>50.0%</td><td>30.0%</td></tr>
<tr><td>project progress</td><td>50.0%</td><td>20.0%</td></tr>
<tr><td>questions to lectures</td><td>50.0%</td><td>50.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Budownictwo ogólne Katalog rozwiązań konstrukcyjno materiałowychNiedostatkiewicz Majewski, Skuza Bobiński</td></tr>
<tr><td>Supplementary literature</td><td>1. Malinowski Cz., Peła R.: Projektowanie konstrukcji murowych i stropów w budownictwie tradycyjnym. Politechnika Łódzka 1999. 2. Malinowski Cz., Peła R.: Projektowanie stropów i ścian w budownictwie tradycyjnym, część I. Łódź: Politechnika Łódzka 1989. 3. Pierzchlewicz J., Jarmontowicz R.: Budynki murowane. Warszawa: Arkady 1994. 4. Praca zbiorowa: Poradnik inżyniera i technika budowlanego, t. V. Warszawa: Arkady 1986. 5. Praca zbiorowa: Poradnik majstra budowlanego. Warszawa: Arkady 1985. 6. Pyrak S., Włodarczyk W.: Konstrukcje budowlane. Warszawa: WSiP 1995. 7. Żenczykowski W.: Budownictwo ogólne, t. 2/1. Warszawa: Arkady 1990. 8. Michalak H., Pyrak S.: Domy jednorodzinne konstruowanie i obliczenia. Warszawa: Arkady 2000. 9. Kobiak J., Stachurski W.: Konstrukcje żelbetowe t.1 Warszawa: Arkady 1984. 10. Niedostatkiewicz M.: Budownictwo Ogólne. Przykłady obliczeń. Gdańsk: Politechnika Gdańska 1999. 11. Niedostatkiewicz M., Majewski T., Skuza M., Bobiński J.: Budownictwo Ogólne. Katalog rozwiązań konstrukcyjno materiałowych. Gdańsk: Politechnika Gdańska 2006</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2"></td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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