GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	EXPERIMENTAL TESTING OF STRUCTURAL MODELS, PG_00062836		
Field of study	Civil Engineering		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
Education level	first-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	4	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Building Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Wojciech Migda	
	Teachers		

Lesson types

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

Subject objectives

The aim of the course is to design a structure for specific span and load-bearing requirements and then build it as a paper structure as a team. The final stage is to check the structure under load.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U05] Conducts research (obtaining information, simulations, experimental methods) in the field of construction in order to solve specific tasks and report research results.	Students independently design the static schematic of the structure and determine the dimensions of the structure's elements.	[SU1] Assessment of task fulfilment
[K6_W05] Demonstrate knowledge and understanding of research methods (obtaining information, simulations, experimental methods) in the field of civil engineering.	Students perform numerical calculations for the designed structure.	[SW2] Assessment of knowledge contained in presentation
[K6_K02] Can work effectively in a group, as well as function in teams, which may consist of representatives of various branches and levels.	Students jointly design and create structures according to design assumptions.	[SK2] Assessment of progress of work
[K6_K03] Can effectively, clearly and unambiguously convey information, describe activities and communicate their results/ outcomes to engineers or a wider audience using appropriate communication methods and tools.	Students present the result of their teamwork in the form of a presentation.	[SK4] Assessment of communication skills, including language correctness

<table>
<tr><td>Subject contents</td><td>Course content – project

Adoption of design assumptions,Preparation of preliminary drawings (concept) of the structure.Creation of a numerical model of the structure.Preparation of construction drawings of structures.Construction of the structure model.Conducting a load test on the structure.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Report</td><td>60.0%</td><td>30.0%</td></tr>
<tr><td>Presentation</td><td>60.0%</td><td>20.0%</td></tr>
<tr><td>Project (model)</td><td>60.0%</td><td>50.0%</td></tr>
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</td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>1. Budownictwo ogólne, Arkady, Tom 1, 3, 4

2. Mechanika ogólna</td></tr>
<tr><td>Supplementary literature</td><td>1. Nowy poradnik majstra budowlanego, Arkady</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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