GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Modification and evaluation of existing structures, PG_00062975		
Field of study	Civil Engineering		
Date of commencement of studies	February 2025	Academic year of realisation of subject	2025/2026
Education level	second-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	3	ECTS credits	2.0
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	30.0	15.0	0.0	0.0	0.0	45

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	45	0.0	0.0	45

Subject objectives

The aim of the course is to familiarize students with the possibilities and consequences of introducing modifications to existing structures.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W15] has deep and adequate knowlege of civil engineering, within offered specialization and profile	Students perform static calculations for an existing structure.	[SW3] Assessment of knowledge contained in written work and projects
[K7_U15] has advanced skills in civil engineering within offered specialization/profile	Based on computational assumptions and calculations, students propose a structural solution for an existing building, that will allow to modify it.	[SU5] Assessment of ability to present the results of task

Subject contents

Course content – lecture
Formal and legal issues of potential building modifications.

Determination of static schematics for existing buildings.

Strengthening calculations using the FEM method.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Project	60.0%	60.0%
Lecture	60.0%	40.0%

Recommended reading

Basic literature	1. USTAWA Prawo budowlane2. Rozporządzenie w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie3. Normy (Eurokody): PN-EN 1990, PN-EN 1991, PN-EN 1992, PN-EN 1993, PN-EN 1995, PN-EN 1996
Supplementary literature	1. Masłowski E., Spiżewska D.: Wzmacnianie konstrukcji budowlanych, Arkady, Warszawa 20002. Fromm E.: Mieć czy być?, Ucieczka od wolności3. Pratchett T.: Piekło pocztowe, Świat finansjery, Para w ruch
eResources addresses	

Example issues/ example questions/ tasks being completed	How to determine the load acting on the internal load-bearing wall when the ceiling layout is not known?
Practical activites within the subject	Not applicable

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