

## Subject card

Subject name and code	, PG_00062975								
Field of study	Civil Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group			Optional 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 Buildir	g Engineering	-> Faculty of Civil and Environmental Engineering						
Name and surname	Subject supervisor dr inż. Wojciech Migda								
of lecturer (lecturers)	Teachers		dr inż. Wojciech Migda						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Project Semina		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 ir classes include 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									
	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		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 literat	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							

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	eResources addresses	Adresy na platformie eNauczanie: Modyfikacja i ocena istniejących konstrukcji - Moodle ID: 36343 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36343
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?
Work placement	Not applicable	

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