



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 Building Engineering -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Wojciech Migda				
	Teachers		dr inż. Wojciech Migda				
Lesson types and methods of instruction	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 knowledge 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	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	Adresy na platformie eNauczenie: 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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