



Subject card

Subject name and code	Demolition works and material recycling, PG_00069239						
Field of study	Civil Engineering						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2026/2027		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish		
Semester of study	7		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. Adam Kristowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	20.0	10.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
	eNauczanie source address: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37841						
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		2.0		18.0	50
Subject objectives	Present and explain the principles of demolition work and material recycling						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W07] Understand the investment's impact on the environment and the interrelationships and dependencies between the building structure and the natural environment		Student knows the principles of the impact of buildings on the environment		[SW1] Assessment of factual knowledge		
	[K6_U07] Design and build engineering structures in a sustainable manner, with care for the natural environment and a minimum carbon footprint		Student zna zasady projektowania zrównoważonego		[SU4] Assessment of ability to use methods and tools		
	[K6_W06] Demonstrates practical knowledge and understanding of materials, devices and tools, processes and technologies in the field of civil engineering (and their limitations).		Student presents and explains the basic concepts related to demolition works		[SW3] Assessment of knowledge contained in written work and projects		
	[K6_K01] Is aware of the key aspects of professional, ethical and social responsibility related to management, business operation, decision making and opinion formulation in civil engineering.		Student knows the standards and principles of construction management		[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_U06] Conduct engineering activities in civil engineering subject area, using and applying practical knowledge and understanding of materials, equipment and tools, processes and technologies.		Student is able to organize work in accordance with technology and safety rules.		[SU5] Assessment of ability to present the results of task		

Subject contents	Course content – lecture Basic information on demolition works. Occupational health and safety during demolition works. Rules for completing BDO documentation. Demolition works manual, mechanical, and chemical methods. Demolition machinery. Transport of construction and demolition materials. Environmental protection during demolition works. Recycling of building materials. Crushers. Construction waste management.		
Prerequisites and co-requisites	none		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		60.0%	50.0%
		60.0%	50.0%
Recommended reading	Basic literature	1. Dyżewski A.: Technologia i organizacja budowy Arkady Warszawa; 2. Stefański A : Technologia zmechanizowanych robót budowlanych. PWN; 3. Kaczkowska A : Roboty remontowe i rozbiórkowe w budownictwie, Kabe 2020; 4. Rawska-Skotniczny A., Margazyn A: Rozbiórki budynków i budowli, PWN 2021.	
	Supplementary literature	1. R. Rekucki, R. Krzewiński: Roboty budowlane przy użyciu materiałów wybuchowych, Polcen 2020.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Practical activities within the subject	Not applicable		

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