GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00069239		
Field of study	Roboty rozbiórkowe i recycling materiałów		
Date of commencement of studies	October 2022	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	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 -> Wydziały Politechniki Gdańskiej		
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_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] Ocena umiejętności zaprezentowania wyników realizacji zadania
[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] Ocena umiejętności rozwiązywania problemów występujących w praktyce
[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] Ocena umiejętności korzystania z metod i narzędzi
[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] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym
[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] Ocena wiedzy faktograficznej

<table>
<tr><td>Subject contents</td><td colspan="3">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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">none</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td></td><td>60.0%</td><td>50.0%</td></tr><tr><td></td><td>60.0%</td><td>50.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">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.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">1. R. Rekucki, R. Krzewiński: Roboty budowlane przy użyciu materiałów wybuchowych, Polcen 2020.</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3"></td></tr>
<tr><td>Practical activites within the subject</td><td colspan="3">Not applicable</td></tr>
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