GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00071098		
Field of study	Civil Engineering		
Date of commencement of studies	October 2022	Academic year of realisation of subject	2025/2026
Education level	first-cycle studies	Subject group	Optional subject group
Mode of study	Part-time studies	Mode of delivery	at the university
Year of study	4	Language of instruction	Polish
Semester of study	8	ECTS credits	3.0
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	10.0	20.0	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	0.0	0.0	30

Subject objectives

Present and explain the principles of demolition work and material recycling

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_K04] Engages in independent lifelong learning and individually follows the development of science and technology in the field of civil engineering.	Student presents and explains basic concepts related to demolition work	[SK4] Assessment of communication skills, including language correctness
[K6_K03] Can effectively, clearly and unambiguously convey information, describe activities and communicate their results/ outcomes to engineers or a wider audience using appropriate communication methods and tools.	Student knows the principles of the impact of building structures on the environment.	[SK2] Assessment of progress of work
[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_U05] Conducts research (obtaining information, simulations, experimental methods) in the field of construction in order to solve specific tasks and report research results.	Student is able to organize work in accordance with technology and safety rules	[SU1] Assessment of task fulfilment
[K6_W03] Demonstrate knowledge and understanding of the processes, established standards and design methods in the civil engineering subject area and of their limitations.	Student knows the principles of sustainable design	[SW2] Assessment of knowledge contained in presentation

<table>
<tr><td>Subject contents</td><td>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.
Course content – exercises
Project tasks related to demolition works. Decision-making tasks related to waste management on the construction site.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>none</td></tr>
<tr><td>Assessment methods and criteria</td><td><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>Recommended reading</td><td><table><tr><td>Basic literature</td><td>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>1. R. Rekucki, R. Krzewiński: Roboty budowlane przy użyciu materiałów wybuchowych, Polcen 2020.
2. Ustawa z dnia 14 grudnia 2012 r. o odpadach (Dz.U. z 2023 r. poz. 1587) z późn. zm.</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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