



Subject card

Subject name and code	, PG_00069240						
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		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	30.0	0.0	0.0	15.0	0.0	45
	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	45		5.0		25.0	75
Subject objectives	Present and explain technology engineering works						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[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.		The student is familiar with work standards in construction.		[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_W06] Demonstrates practical knowledge and understanding of materials, devices and tools, processes and technologies in the field of civil engineering (and their limitations).		The student knows the standards and principles of construction management.		[SW1] Assessment of factual knowledge		
	[K6_W07] Understand the investment's impact on the environment and the interrelationships and dependencies between the building structure and the natural environment		The student knows the principles of caring for the environment.		[SW3] Assessment of knowledge contained in written work and projects		
	[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.		The student is able to organize work on a construction site in accordance with the principles of construction technology and organization		[SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_U07] Design and build engineering structures in a sustainable manner, with care for the natural environment and a minimum carbon footprint		The student presents and explains the basic concepts of special construction technology.		[SU1] Assessment of task fulfilment		

Subject contents	Course content – lecture Underground construction technology, trenchless methods. Demolition works. Deep foundation technologies for buildings. Foldable structures. Building relocation and rectification. Drainage of deep construction excavations. Special methods of concreting engineering structures. Construction works in winter and emergency conditions. Technologies for rapid reinforcement and stabilization of the ground.		
Prerequisites and co-requisites	access to professional literature		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Midterm colloquium	60.0%	50.0%
	Project	60.0%	50.0%
Recommended reading	Basic literature	Zalecana literatura: 1. Dyżewski A. : Technologia i organizacja budowy Arkady Warszawa 2. Stefański A. : Technologia zmechanizowanych robót budowlanych. PWN 3. Stefański A., Walczak J. : Technologia robót budowlanych. Arkady 4. Śniadkowski Z. : Maszyny do zagęszczania podłoża. WN-T 5. Praca zbiorowa : Mechanizacja robot wykończeniowych w budownictwie. Arkady 6. Fligier K., Rowiński L., Szwabowski J. : Montaż zintegrowanych konstrukcji budowlanych. PWN 7. Przychodzeń T. : Mechanizacja robót ziemnych w warunkach zimowych IOMB	
	Supplementary literature	No requirements	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Practical activities within the subject	Not applicable		

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