



Subject card

Subject name and code	Technology of Engineering Works, PG_00042262						
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 Subject group related to scientific research in the field of study		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Department of Building Engineering -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Adam Kristowski					
	Teachers	dr inż. Adam Kristowski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	30.0	0.0	60
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	60		5.0		35.0	100
Subject objectives	Knowledge of selected technologies for engineering works						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_K01] is aware of necessity of professional competences improvement; obeys the professional ethics code	The student is able to present the principles of managing engineering robots			[SK5] Assessment of ability to solve problems that arise in practice		
	[K7_W15] has deep and adequate knowledge of civil engineering, within offered specialization and profile	The student explain and present basic problems with the implementation of engineering works			[SW1] Assessment of factual knowledge		
	[K7_U15] has advanced skills in civil engineering within offered specialization/profile	The student present the results of his work			[SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	Introduction, aim, specific characteristics and range of engineering works. Demands for this type of construction. Pile driving – types, structure and purpose of pile drivers and hammers. The construction and execution of scarps, excavation and earthwork structure support. Driving piles and sheet-pile walls. Production of piles formed in the ground. Vibroflotation – other methods of deep ground exchange and consolidation. Construction drainage – calculations, types and purpose. Equipment and materials for airports building. Basic information on airport construction. Equipment and materials for railroads building. Basic information on railroads.						
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 2. Praca zbiorowa : Fundamentowanie tom I i II. Arkady 3. Przychodzień T. : Mechanizacja robót ziemnych w warunkach zimowych. IOMB 4. Praca zbiorowa : Budownictwo betonowe : tom XVII – Budowle hydrotechniczne morskie ,tom XVII – Budowle wodne śródlądowe.Arkady. 5. Gwizdała K., Kowalski J.R. :Prefabrykowane pale wbijane, Politechnika Gdańska.					

	Supplementary literature	6. Bałuch H. :Budownictwo komunikacyjne, WAT. 7. Instrukcja ITB282: Wytoczne wykonywania robót budowlano – montażowych w okresie obniżonych temperatur 8. Poradnik kierownika budowy, PWN.
	eResources addresses	Adresy na platformie eNauczanie: Technologia robót inżynieryjnych i specjalnych 2023/24 - Moodle ID: 34453 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34453
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	