



## Subject card

Subject name and code	Engineering project, PG_00044667						
Field of study	Transport						
Date of commencement of studies	October 2021		Academic year of realisation of subject		2024/2025		
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		14.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Sławomir Grulkowski				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	0.0	0
	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	0		20.0		330.0	350
Subject objectives	The self-accomplishment of engineering work using so far obtained knowledge and skills						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K01] able to think and act creatively and enterprisingly; able to define priorities to support the delivery of an individual or group task; understands the need for continuous education and taking responsibility as a professional for their work and the work of the team		The student is able to plan the implementation of the task		[SK3] Assessment of ability to organize work		
	[K6_W16] has basic knowledge of industrial and intellectual property protection and copyright law		The student is able to identify the source of knowledge and select the literature on the subject		[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects		
	[K6_U10] able to carry out simple engineering tasks related to the construction and operation of a selected element of the transport system, select the right methods and tools, select the right technical parameters for an object to be designed including economic and environmental aspects		The student is able to use the knowledge and source materials to solve the problem of the topic of work		[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
	[K6_U02] able to use patent information on transport systems, infrastructure and means of transport		The student is able to identify the source of knowledge and select the literature on the subject		[SU2] Assessment of ability to analyse information		
	[K6_U09] able to, when formulating and solving engineering problems in transport, use the right methods and devices to carry out measurements of basic values and parameters used in transport, carry out stress tests of structures, select the right materials, select elements of devices		The student is able to use methods and devices as well as specialized software		[SU4] Assessment of ability to use methods and tools		

Subject contents	Student organizes the measurement and design works. Performs the necessary technical calculations, analysis and comparisons. Develops the written engineering work.		
Prerequisites and co-requisites	Knowledge based on study programme		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	assessment of reviewer	60.0%	50.0%
	assessment of the tutor	60.0%	50.0%
Recommended reading	Basic literature	depends on work issues	
	Supplementary literature	depends on work issues	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Measurement of a section of a tram line with analysis and evaluation		
	Analysis and rules for the transport of dangerous goods with a proposal for changes		
	Concepts for the development of the Tri-City city rail		
Work placement	Not applicable		

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