



## Subject card

Subject name and code	Engineering project, PG_00044667						
Field of study	Transport						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2023/2024		
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_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		
	[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_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			[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information		
	[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			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		
	[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		
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 the tutor	60.0%	50.0%
	assessment of reviewer	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	<p>Measurement of a section of a tram line with analysis and evaluation</p> <p>Analysis and rules for the transport of dangerous goods with a proposal for changes</p> <p>Concepts for the development of the Tri-City city rail</p>		
Work placement	Not applicable		