



## Subject card

Subject name and code	Traffic and transport studies, PG_00044645						
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			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	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 Transportation Engineering -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Wojciech Kustra					
	Teachers	mgr inż. Łukasz Jeliński dr hab. inż. Piotr Jaskuła dr inż. Sławomir Grulkowski dr inż. Wojciech Kustra					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	0.0	15.0	0.0	45
	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	45	5.0		25.0		75
Subject objectives	The aim of the course is to introduce students to new ways of carrying out measurement, research work related to transport						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W17] has proficiency in transport systems as appropriate for their specialty	The student is able to select types of transport research for selected transport systems. The student is able to determine the scope of research, the area of research conducted, typical errors in the process of transport research			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U12] able to select tools and methods, carry out assessments and simple tests of transport systems to an extent required of the specialty / learning profile	With the knowledge and skills related to transport surveys, the student will be able to carry out simple surveys to assess transport performance.			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information		
	[K6_W14] has basic knowledge of measurement techniques used to describe the phenomena which occur in transport structures and when means of transport are operated	The student will acquire knowledge related to the latest methods, techniques of carrying out measurement, research work related to transport. The student will carry out selected research related to the operation of transport systems.			[SW1] Assessment of factual knowledge		

Subject contents	LECTURES:Comprehensive traffic studies.Traffic volume and speed surveys.Filling research in public transport.Pedestrian traffic surveys - analysis.Ferry service time studies.Parking research.Road surface surveys.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		50.0%	20.0%
		100.0%	40.0%
		100.0%	40.0%
Recommended reading	Basic literature	1. Gaca S., Suchorzewski W., Tracz M., Inżynieria ruchu drogowego. Teoria i praktyka. WKŁ Warszawa 2009	
	Supplementary literature	1. Institute of Transportation Engineers, Trip Generation Manua  2. Richard E. Allsop, Michael G. H. Bell, Benjamin G. Heydecker Transportation And Traffic Theory  3. Rumen Yordanov1 , Rosen Miletiev, Ilian Damyanov and Emil Iontchev, Measurement and analysis of the road traffic, Department of Electronics, Faculty of Electronic Engineering and Technologies	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	1. Intensity measurement at the intersection.2. Measurement of pedestrian volumes in the tunnel by the Central Station and the Upland Gate.3. Measurement of filling and exchange on public transport while standing at a stop or on inside vehicle.4. Analysis of traffic conflicts.5. Surveys at shopping facilities.		
Work placement	Not applicable		