

GDAŃSK UNIVERSITY

Subject card

Subject name and code	Modes of transport, PG_00064172								
Field of study	Transport								
Date of commencement of studies			Academic year of realisation of subject			2025/2026			
Education level			Subject group			Obligatory subject group in the field of study 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			Language of instruction			Polish			
Semester of study			ECTS credits			3.0			
Learning profile			Assessment form			assessment			
Conducting unit	Department Of Transportation Engineering -> Faculty Of Civil And Environmental Engineering -> Wydziały Politechniki Gdańskiej							g -> Wydziały	
Name and surname	Subject supervisor		dr hab. inż. Jacek Oskarbski						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	15.0	0.0	0.0		0.0	30	
Learning activity and number of study hours	E-learning hours included: 0.0 Learning activity Participation in didactic								
	Learning activity	classes includ		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		5.0		40.0		75	
Subject objectives	Acquire knowledge of the use of modern means of transport including technological and organisational solutions.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	elaborated transport problem and present it in Polish and a foreign language, draft and read technical drawings		Ability to document and present in Polish and foreign language a problem developed by him/her in the field of means of transport, to prepare and read technical drawings.			[SU1] Assessment of task fulfilment [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 [SU5] Assessment of ability to present the results of task			
	thermodynamics, materials science, and measurement techniques necessary to understand the phenomena occurring in transportation, as well as the principles of construction		Acquiring knowledge of physics, mechanics, electrotechnics, hydromechanics, thermodynamics, material science and measurement techniques necessary for understanding transport phenomena and the principles of construction and operation of infrastructure and means of transport			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
	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		Ability to think and act creatively, and entrepreneurially; ability to prioritise to complete an individual or group task; understanding of the need for continuous learning and professional responsibility for one's own and the team's activities.			[SK1] Assessment of group work skills [SK2] Assessment of progress of work [SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice			

Subject contents	MaaS (Mobility as a Service). Collaborative systems (CITS). Applications in transport management. Decision support and vehicle security systems. Support for transport safety management systems.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Pass the lectures	60.0%	60.0%				
	Pass workshops	90.0%	40.0%				
Recommended reading	Basic literature	Cooperative Intelligent Transport Systems: Towards high level automated driving. Meng Lu. 2019.					
	Supplementary literature	Strony internetowe i czasopismalEEE TRANSACTIONS ONINTELLIGENT TRANSPORTATIONSYSTEMS,IEEETRANPORTATION RESEARCH, PART C:EMERGINGTECHNOLOGIES, PERGAMON-ELSEVIER SCIENCELTDJOURNAL OF INTELLIGENT TRANSPORTATIONSYSTEMS,TAYLOR & FRANCIS INCINTERNATIONAL JOURNAL OFVEHICLE INFORMATION ANDCOMMUNICATION SYSTEMS,INDERSCIENCE ENTERPRISESIEEE TRANSACTIONS ONVEHICULAR TECHNOLOGY, IEEE					
Example issues/ example questions/	eResources addresses Adresy na platformie eNauczanie: What are the considerations for MaaS implementations. How MaaS differs from TMaaS. Examples and effects of C-ITS applications in transport management.						
tasks being completed							
Work placement	Not applicable						

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