



Subject card

Subject name and code	, PG_00066214						
Field of study	Transport						
Date of commencement of studies	February 2024		Academic year of realisation of subject		2024/2025		
Education level	second-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Transportation Engineering -> Faculty Of Civil And Environmental Engineering -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Bohdan Dołżycki				
	Teachers		dr inż. Bohdan Dołżycki				
			dr inż. Mariusz Jaczewski				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	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		0.0		0.0	45
Subject objectives	The subject presents the principles of management and maintenance of road infrastructure used in Poland and around the world.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_K02] makes competent and ethical decisions, caring for the public interest and maintaining economic, social and environmental values		Can select pavement repair methods depending on its condition and external factors.		[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK2] Assessment of progress of work		
	[K7_W02] explains the importance and interdependence of key components describing transport systems and processes and their environment, using in-depth knowledge in accordance with the main trends in the development of scientific disciplines related to the field of study		Understands the connections between individual pavement features and their impact on the safety of road users.		[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge		
	[K7_U01] creates innovative solutions to complex and unstructured problems, taking into account the variability of the environment by synthesizing information from many sources, using analytical, simulation and experimental methods		Knows the systems used to assess the condition of the pavement. Is able to collect input data for them. Is able to assess the condition of the pavement based on the data available.		[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		

Subject contents	1. Road records. 2. Pavement condition diagnostics. 3. Preparation for pavement repair or reconstruction. 4. Selected pavement reconstruction technologies. 5. Surface management.		
Prerequisites and co-requisites	Subjects: 1. Technologies and materials in road infrastructure maintenance. 2. Road and airport infrastructure diagnostics.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Lecture - pass	60.0%	60.0%
	Design - pass	60.0%	20.0%
	Laboratory - pass	60.0%	20.0%
Recommended reading	Basic literature	1. Pavement Condition Diagnostics. GDDKiA Materials. 2. Zofka A. Proactive strategy for managing road infrastructure elements. IBDiM Warsaw 2019. 3. Haas R. Hudson R. Pavement asset management. 2015.	
	Supplementary literature	1. Piłat J., Radziszewski P.: Asphalt pavements, WKŁ, 2004. 2. Catalog of typical structures of flexible and semi-rigid pavements. GDDKiA, Warsaw, 2014. 3. Catalog of reinforcements and repairs of flexible and semi-rigid pavements. GDDP/IBDiM, Warsaw 2001	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	1. Describe the DSN system. 2. Describe the procedure for selecting road surface reconstruction technology. 3. Principles for selecting pavement rehabilitation techniques in relation to its technical condition.		
Work placement	Not applicable		

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