

Subject card

Subject name and code	Management and maintenance of road infrastructure, PG_00062466								
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			Specialty 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	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						-> Wydziały		
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Bohdan Dołżycki						
	Teachers		dr inż. Bohda	n Dołżycki					
	dr inż. Mariusz Jaczewski								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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 classes include plan				Self-study		SUM	
	Number of study hours	45		5.0		25.0		75	
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 [K7_U01] creates innovative		Understands the connections between individual pavement features and their impact on the safety of road users Knows the systems used to assess the condition of the			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
	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		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.			present the results of task [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information			

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Subject contents	1. Road records.							
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	Pavement condition diagnostics.							
	Preparation for pavement repair or reconstruction.							
	4 Selected navement reconstruct	Selected pavement reconstruction technologies.						
	4. Solested pavement reconstruction teambologies.							
	5. Surface management.							
	o. Canado managomona							
Prerequisites	Subjects:							
and co-requisites								
	Technologies and materials in road infrastructure maintenance							
	2. Road and airport infrastructure diagnostics							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	Design - pass	60.0%	20.0%					
	Laboratory - pass	60.0%	20.0%					
	Lecture - pass	60.0%	60.0%					
December ded reading	Basic literature	Pavement Condition Diagnostics						
Recommended reading	Dasic illerature	1. I aveillent Condition Diagnostic.	s. ODDINA Materials.					
	Zofka A. Proactive strategy for managing road infrastru							
		elements. IBDiM Warsaw 2019.						
		3. Haas R. Hudson R. Pavement asset management. 2015.						
	Cumplementer ditenture	4 Dilet I Dedeise supli D. Aanhall a susses at MICh 2004						
	Supplementary literature	1. Piłat J., Radziszewski P.: Asphalt pavements, WKŁ, 2004.						
		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						
		pavemente. OBBI /IBBIIVI, VValouv	,					
	eResources addresses Adresy na platformie eNauczanie:							
Example issues/	1. Describe the DSN system.							
example questions/								
tasks being completed								
	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							
Work placement	140t applicable							

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