

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	, PG_00065223							
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	1		Language of instruction			Polish		
Semester of study	2		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	Subject supervisor dr inż. Marcin Stienss							
of lecturer (lecturers)	Teachers dr inż. Mariusz Jaczewski dr inż. Marcin Stienss							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	+	Seminar	SUM
Lesson types and methods of instruction	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 includ plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	45	0.0			0.0		45
Subject objectives	Description of the prir the maintenance of ro			d qualification	of road	techno	logies and ma	aterials used in
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K7_K01] recognizes the importance of knowledge related to the field of study in solving cognitive and practical problems		After completing the course, the student is able to select the appropriate technology and material for the task assigned to him or her to develop a specific road infrastructure maintenance procedure.			[SK5] Assessment of ability to solve problems that arise in practice		
	[K7_U05] cooperates with other people in the implementation of team work, both as a leader and a team member, effectively achieving set goals		After completing the course, the student is able to cooperate with other people from his/her project group in solving a design task related to the maintenance of road infrastructure.			[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment		
	[K7_W01] identifies in an in-depth way phenomena related to the field of study as well as theories describing them and possible methods of analyzing processes occurring in the life cycle of technical systems		After completing the course, the student is able to use the knowledge acquired previously in the selection of technologies and materials used in the maintenance of road infrastructure.			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		
Subject contents	Summer and winter maintenance technologies. Selection of appropriate technologies depending on existing damage to the pavement and other elements of road infrastructure. Materials for maintaining asphalt pavements. Materials for maintaining concrete pavements. Materials for maintaining unbound and block pavements. Materials for maintaining other road elements (marking, green areas, road barriers). Testing and classification of asphalt emulsions. Testing and classification of materials for unbound surfaces.							
Prerequisites and co-requisites								

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Exam	60.0%	60.0%			
	Laboratory	60.0%	40.0%			
Recommended reading	Basic literature	<ol> <li>Piłat J. Radziszewski P., Asphalt pavements,</li> <li>Szydło A., Concrete pavments,</li> <li>Stypułkowski B., Issues of maintenance and modernization of roads and streets,</li> <li>Recommended guidelines for roads published by the Ministry of Infrastructure.</li> </ol>				
	Supplementary literature	Publikacje występujące w Internecie				
	eResources addresses	Podstawowe				
		https://www.gov.pl/web/infrastruktura/wr-d - Recommended guidelines for roads published by the Ministry of Infrastructure				
		Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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