

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00065280							
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 pro	ic profile Ass		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. Marcin Stienss					
	Teachers		dr inż. Mariusz Jaczewski					
		dr inż. Marcin Stienss						
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 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	Description of the print the maintenance of ro	nciples of select bad infrastructu	tion, testing ar	nd qualification	of road	technol	ogies and ma	aterials used in

Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[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				
	[K7_U02] presents logical and solid arguments regarding the obtained results, through analysis, synthesis of information in various technical contexts, critically approaching their interpretation	After completing the course, the student is able to critically evaluate proposed technologies and materials for maintaining road infrastructure in terms of costs and environmental impact, as well as suitability for existing damage.	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment				
	[K7_K02] makes competent and ethical decisions, caring for the public interest and maintaining economic, social and environmental values	After completing the course, the student is able to select appropriate technology and materials for maintaining the road surface, taking into account economic, social and environmental aspects.	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work				
	[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				
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	Laboratory	60.0%	40.0%				
	Exam	60.0%	60.0%				
Recommended reading	Basic literature	 Piłat J. Radziszewski P., Asphalt pavements, Szydło A., Concrete pavments, Stypułkowski B., Issues of maintenance and modernization of roads and streets, Recommended guidelines for roads published by the Ministry of Infrastructure. 					
	Supplementary literature	Publikacje występujące w Internecie					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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