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 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	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

Description of the principles of selection, testing and qualification of road technologies and materials used in the maintenance of road infrastructure

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 asphalts. Testing and classification of asphalt emulsions. Testing and classification of materials for unbound surfaces.

Prerequisites and co-requisites

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Exam</td><td>60.0%</td><td>60.0%</td></tr>
<tr><td>Laboratory</td><td>60.0%</td><td>40.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>1. Piłat J. Radziszewski P., Asphalt pavements,
2. Szydło A., Concrete pavments,
3. Stypułkowski B., Issues of maintenance and modernization of roads and streets,
4. Recommended guidelines for roads published by the Ministry of Infrastructure.</td></tr>
<tr><td>Supplementary literature</td><td>Publikacje występujące w Internecie</td></tr>
<tr><td>eResources addresses</td><td>Podstawowe
https://www.gov.pl/web/infrastruktura/wr-d - Recommended guidelines for roads published by the Ministry of Infrastructure
Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2"></td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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