

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 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								

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[K7_K01] recognizes the importance of knowledge related to the field of study in solving cognitive and practical problems [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 the appropriate technology and material for the task assigned to him or her to develop a specific road infrastructure maintenance procedure. [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. After completing the course, the solve problems that appropriate technology and materials for maintaining the road surface, taking into account economic, social and environmental aspects.	f ability to arise in f progress of f ability to ols f ability to						
ethical decisions, caring for the public interest and maintaining economic, social and environmental values student is able to select appropriate technology and materials for maintaining the road surface, taking into account economic, social and environmental aspects. solve problems that appropriate technology and materials for maintaining the road surface, taking into account work	f progress of f ability to ols f ability to						
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solid arguments regarding the obtained results, through analysis, synthesis of information in various technical contexts, critically approaching their interpretation solid arguments regarding the obtained results, through analysis, synthesis of information in various technical contexts, critically approaching their interpretation suitability for existing damage.	[SÚ2] Assessment of ability to analyse information [SU1] Assessment of task						
way phenomena related to the field of study as well as theories student is able to use the knowledge acquired previously in projects	[SW1] Assessment of factual						
people in the implementation of team work, both as a leader and a team member, effectively achieving set goals 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. 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. [SU3] Assessment of use knowledge gaine subject [SU2] Assessment of analyse information	[SÚ2] Assessment of ability to analyse information [SU1] Assessment of task						
damage to the pavement and other elements of road infrastructure. Materials for maintaining as pavements. Materials for maintaining concrete pavements. Materials for maintaining other road elements (marking, green areas, road barriers	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 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 1. Piłat J. Radziszewski P., Asphalt pavements, 2. Szydło A., Concrete pavments, 3. Stypułkowski B., Issues of maintenance and moderni roads and streets, 4. Recommended guidelines for roads published by the Infrastructure.	, Concrete pavments, wski B., Issues of maintenance and modernization of d streets, lended guidelines for roads published by the Ministry of						
Supplementary literature Publikacje występujące w Internecie	Publikacje występujące w Internecie						
eResources addresses Adresy na platformie eNauczanie:	Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed							
Work placement Not applicable							

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