

。 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	ofile	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 pri the maintenance of re			nd qualification	of road	technol	logies and m	aterials used in

IFC, X0171 recognizes the importance of knowledge related to the field of study in solving cognitive and practical problems in the to develop a spacific international to develop approaching the course, the subtext of the develop and matching the course, the subtext is developed technology and materials for maintaining the oral and materials for maintaining the oral and materials for maintaining the oral and materials for maintaining the oral instanticular in terms of costs and instanticular in terms of costs and subtext is able to use the subtext is developed technologies subtability for existing damages subtability for existing damages instanticular in terms of costs and instanticular in terms of costs and subtability for existing damages instanticular in terms of costs and instanticular in terematerinande international proposition in terms of costs and inst	Learning outcomes	Course outcome	Subject outcome	Method of verification					
ethical docisions, caring for the public interest and maintaining economic, social and solid arguments regarding the solid argument solid arguments solid argument solid arguments solid argument solid argument solid argument		importance of knowledge related to the field of study in solving	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	solve problems that arise in					
subdent spatial arguments regarding the obtained results, through analyse, explained proposed technologies and materials for maintaining croads indicative in terms of costs and environmental impact, as well as subdent is able to costs and environmental impact, as well as subdent is able to costs and environmental impact, as well as subdent is able to costs and environmental impact, as well as subdent is able to use the materials used in the maintenance describing fram and possible methods of analyzing processes occuming in the life cycle methods of analyzing processes infrastructure. [SW3] Assessment of factual knowledge and core life (SW3] Assessment of ability to materials to an infrastructure. Subject contents Summer and winter maintenance technologies. Selection of appropriet etchnologies depending on existing damage to the pavement and other elements of road infrastructure. [SW3] Assessment of ask tuitifiement Subject contents Subject passing criteria an		ethical decisions, caring for the public interest and maintaining economic, social and	student is able to select appropriate technology and materials for maintaining the road surface, taking into account economic, social and	solve problems that arise in practice [SK2] Assessment of progress of					
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 student is able to use the invowledge acquired previously in the selection of technologies and materials used in the maintenance of road infrastructure. [SUS] Assessment of factual knowledge acquired previously in the selection of technologies and materials used in the maintenance of road infrastructure. [SUS] Assessment of ability to present the results of task (SU3] Assessment of ability to achieving set goals Subject contents Summer and winter maintenance technologies. Selection of appropriate technologies depending on existing damage to the pavement and other elements of road infrastructure. [SUS] Assessment of ability to analyse information [SU1] Assessment of ability to analyse information (SU1] Assessment of ability to analyse information [SU1		solid arguments regarding the obtained results, through analysis, synthesis of information in various technical contexts, critically	student is able to critically evaluate proposed technologies and materials for maintaining road infrastructure in terms of costs and environmental impact, as well as	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					
people in the implementation of team work, both as a leader and a team work, both as a leader and a chieving set goals student is able for cooperate with ther people from his/her project group in solving a design task related to the maintenance of road infrastructure. present the results of task. 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 aphalt pavements. Materials for maintaining other road elements (marking, green areas, road barriers). Testing and classification of appropriate technologies. Testing and classification of aphalts. Testing aphalts. Testing and classification of aphalts. T		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	student is able to use the knowledge acquired previously in the selection of technologies and materials used in the maintenance	contained in written work and projects [SW1] Assessment of factual					
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 asphalts. Testing and classification of asphalts for unbound surfaces. Prerequisites		people in the implementation of team work, both as a leader and a team member, effectively	student is able to cooperate with other people from his/her project group in solving a design task related to the maintenance of road	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					
and co-requisites Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade 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 modernization of roads and streets, 4. Recommended guidelines for roads published by the Ministry of Infrastructure. Supplementary literature Publikacje występujące w Internecie Resources addresses Adresy na platformie eNauczanie:	Subject contents	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							
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 modernization of roads and streets, 4. Recommended guidelines for roads published by the Ministry of Infrastructure. Supplementary literature Publikacje występujące w Internecie eResources addresses Adresy na platformie eNauczanie:									
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 modernization of roads and streets, 4. Recommended guidelines for roads published by the Ministry of Infrastructure. Supplementary literature Supplementary literature Publikacje występujące w Internecie eResources addresses Adresy na platformie eNauczanie:	Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
Recommended reading Basic literature 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. Supplementary literature Supplementary literature Publikacje występujące w Internecie eResources addresses Adresy na platformie eNauczanie:	and criteria	Laboratory		40.0%					
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. Supplementary literature Publikacje występujące w Internecie eResources addresses Adresy na platformie eNauczanie: Example issues/ example questions/ tasks being completed		Exam							
eResources addresses Adresy na platformie eNauczanie: Example issues/ example questions/ tasks being completed	Recommended reading	 Szydło A., Concrete pavments, Stypułkowski B., Issues of maintenance and modernization of roads and streets, Recommended guidelines for roads published by the Ministry of 							
Example issues/ example questions/ tasks being completed			Publikacje występujące w Internecie						
example questions/ tasks being completed		eResources addresses Adresy na platformie eNauczanie:							
Work placement Not applicable	example questions/								
	Work placement	Not applicable							

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