



Subject card

Subject name and code	, PG_00071092						
Field of study	Civil Engineering						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2025/2026		
Education level	first-cycle studies	Subject group			Optional subject group		
Mode of study	Part-time studies	Mode of delivery			at the university		
Year of study	4	Language of instruction			Polish		
Semester of study	8	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Marcin Stienss				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	10.0	10.0	0.0	0.0	0.0	20
	E-learning hours included: 0.0						
	eNauczanie source address: <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=47879">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=47879</a>						
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	20		0.0		0.0	20
Subject objectives	Widening of knowledge in the field of road works technology.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_K01] Is aware of the key aspects of professional, ethical and social responsibility related to management, business operation, decision making and opinion formulation in civil engineering.	Student understands responsibility for the value and reliability of his/her work and decisions in the field of road and motorway construction.			[SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice		
	[K6_U05] Conducts research (obtaining information, simulations, experimental methods) in the field of construction in order to solve specific tasks and report research results.	Student has ability to recognize adequate technological processes in road construction. Student has ability to chose suitable road construction plant and materials.			[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_W03] Demonstrate knowledge and understanding of the processes, established standards and design methods in the civil engineering subject area and of their limitations.	Student recognizes and classifies operational sequence of road construction. Student defines and describes choice of suitable road construction plant and materials.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects		
	[K6_K04] Engages in independent lifelong learning and individually follows the development of science and technology in the field of civil engineering.	Student understands responsibility resulting from engineer's competence and need for supplementing and widening the knowledge concerning development of road technology			[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_K03] Can effectively, clearly and unambiguously convey information, describe activities and communicate their results/outcomes to engineers or a wider audience using appropriate communication methods and tools.	Student describes results of his work regarding road technologies and formulates correct conclusions with use of appropriate methods.			[SK4] Assessment of communication skills, including language correctness		

Subject contents	<p>Course content – lecture</p> <p>Execution of earthworks. Technology of soil stabilization. Construction of base and subbase pavement layers. Construction of bituminous pavement layers. Technology of concrete pavements. Cold and hot recycling of asphalt pavements.</p>											
Prerequisites and co-requisites	Knowledge from the subject Roads and Higways I and II											
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="454 400 796 432">Subject passing criteria</th> <th data-bbox="799 400 1141 432">Passing threshold</th> <th data-bbox="1144 400 1482 432">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="454 436 796 468">Test</td> <td data-bbox="799 436 1141 468">60.0%</td> <td data-bbox="1144 436 1482 468">60.0%</td> </tr> <tr> <td data-bbox="454 472 796 504">Designing</td> <td data-bbox="799 472 1141 504">100.0%</td> <td data-bbox="1144 472 1482 504">40.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Test	60.0%	60.0%	Designing	100.0%	40.0%
Subject passing criteria	Passing threshold	Percentage of the final grade										
Test	60.0%	60.0%										
Designing	100.0%	40.0%										
Recommended reading	Basic literature	<ol style="list-style-type: none"> <li>1. Piłat J., Radziszewski P., Nawierzchnie asfaltowe, WKŁ, 2010</li> <li>2. Szydło A.: Nawierzchnie drogowe z betonu cementowego, Polski Cement, 2004</li> <li>3. Błażejowski K., Styk S., Technologia warstw asfaltowych, WKŁ, Warszawa, 2009</li> <li>4. Wytyczne Wykonania i Odbioru Robót Budowlanych (WWiORB), GDDKiA, 2019 - 2025</li> </ol>										
	Supplementary literature	<p>2012_CATERPILLAR_Guide to Asphalt Compaction (internet)</p> <p>2013_CATERPILLAR_Guide to soil compaction (internet)</p> <p>2016_CATERPILLAR_Guide to Asphalt Paving (internet)</p>										
	eResources addresses											
Example issues/ example questions/ tasks being completed	<p>Basic (general) rules of construction of road embankments.</p> <p>Technologies of soil stabilization.</p> <p>Batch plant asphalt mix production. Which component of asphalt concrete is not heated in plant drier during mix production process? Why?</p>											
Practical activities within the subject	Not applicable											

Document generated electronically. Does not require a seal or signature.