



Subject card

Subject name and code	, PG_00065262						
Field of study	Civil Engineering						
Date of commencement of studies	February 2024		Academic year of realisation of subject		2024/2025		
Education level	second-cycle studies		Subject group		Optional subject group		
Mode of study	Full-time studies		Mode of delivery		e-learning		
Year of study	2		Language of instruction		English		
Semester of study	3		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Transportation Engineering -> Faculty Of Civil And Environmental Engineering -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Piotr Jaskuła				
	Teachers		dr hab. inż. Dawid Ryś				
			dr hab. inż. Piotr Jaskuła				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	15.0	0.0	0.0	0.0	45
	E-learning hours included: 45.0						
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	Students will participate in lectures delivered by visiting professors and members of industry and government from different branches of the construction industry roads, railways, bridges and buildings. The Blended Intensive Program focuses on the topic of monitoring and evaluation of infrastructure and building, with different topics from the start of construction (design and planning), through the construction itself as considering long-term service life and maintenance, finishing at various techniques of assessing the construction condition.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U15] has advanced skills in civil engineering within offered specialization/profile		has advanced skills in the field of civil engineering, with the ability to use diploma profiles		[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task		
	[K7_W15] has deep and adequate knowledge of civil engineering, within offered specialization and profile		has structured and in-depth knowledge of the field of civil engineering, within the offered specializations and diploma profiles		[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects		
Subject contents	Design strategies for lightweight bridges, J. Blom (U Antwerpen)New abilities for road infrastructures elements and life cycle analysis, E. Freitas, E. Melo, O. Lima (UMinho)Sustainability Assessment of Railways and Roads Pavements (Miguel Del Sol Sánchez, Ana Jiménez del Barco Carrión, UGr)Road safety audit and pavement surface characteristics, F. Kehagia, E. ManthosThe ACR-PCR Method to Report Airport Pavement Strength, A. Graziani (UNIVPM)Innovations in road pavements / information about a joint Master SURPAVE (starting sep 2026) (Wim Van den bergh, UAntwerpen)Traffic Load Analysis for Pavement Design (D. Rys, GUT)						

Prerequisites and co-requisites	<p>- speaking and writing in English</p> <p>- specific prerequisites for this course: Basic knowledge of civil engineering technology and sustainability.</p> <p>It is recommended to follow this course in your final bachelors year or masters years.</p>								
Assessment methods and criteria	<table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>presentation and written report</td><td>60.0%</td><td>100.0%</td></tr></table>	Subject passing criteria	Passing threshold	Percentage of the final grade	presentation and written report	60.0%	100.0%		
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Recommended reading	Basic literature	Thom, N. (2024). Principles of Pavement Engineering (3rd ed.). ICE Publishing. Retrieved from https://www.perlego.com/book/4335960/principles-of-pavement-engineering-pdf (Original work published 2024)							
	Supplementary literature	Ppagiannakis A.T., Masad E. Pavement Design and Materials, Wiley 2024							
	eResources addresses	Adresy na platformie eNauczanie:							
Example issues/ example questions/ tasks being completed	<p>Traffic Load Analysis for Pavement Design</p> <p>Can the paving operations during construction be monitored to improve pavements durability and guarantee their life expectancy?</p> <p>New abilities for road infrastructures elements and life cycle analysis</p>								
Work placement	Not applicable								

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