

Subject card

Subject name and code	, PG_00069428									
Field of study	Materially drogowe									
Date of commencement of studies	October 2022		Academic year of realisation of subject			2025/2026				
Education level	first-cycle studies		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	7		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	Subject supervisor		dr hab. inż. Pi	otr Jaskuła						
of lecturer (lecturers)	Teachers				i					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM		
	Number of study hours	10.0	0.0	10.0 0.0			0.0	20		
	E-learning hours included: 0.0 eNauczanie source address: https://enauczanie.pg.edu.pl/2025/course/view.php?id=2449									
								1		
Learning activity and number of study hours	Learning activity		ticipation in didactic sses included in study n		Participation in consultation hours		udy	SUM		
	Number of study hours	20		2.0		28.0		50		
Subject objectives	To learn principles of material's type, laboratory testing and quality control of highway materials.									
Learning outcomes	Course outcome Subje			ect outcome Method of verification						
	[K6_W06] Demonstrates practical knowledge and understanding of materials, devices and tools, processes and technologies in the field of civil engineering (and their limitations).		Classifies and tests aggregates, bituminous binders, and asphalt mixtures.			[SW2] Ocena wiedzy zawartej w prezentacji				
	[K6_U06] Conduct engineering activities in civil engineering subject area, using and applying practical knowledge and understanding of materials, equipment and tools, processes and technologies.		Assessment of road pavements. Modern road materials.			[SU1] Ocena realizacji zadania				
	[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.		Knowledge of construction contract requirements.			[SK2] Ocena postępów pracy				
	[K6_U07] Design and build engineering structures in a sustainable manner, with care for the natural environment and a minimum carbon footprint		Assessment of road pavements. Modern road materials			[SU1] Ocena realizacji zadania [SU5] Ocena umiejętności zaprezentowania wyników realizacji zadania				
	[K6_W07] Understand the investment's impact on the environment and the interrelationships and dependencies between the building structure and the natural environment		Can use recycling materials.			[SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym				

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Subject contents	Course content – lecture								
	Course content lecture								
	Classification and tests of aggregates. Bituminous binders: types, classification and tests. Types of asphalt								
	mixtures and their applications. Asphalt mixture design and tests. Small size elements: kerbs, concrete								
	mixtures and their applications. Asphalt mixture design and tests. Small size elements: kerbs, concrete paving blocks. Alternative materials, types and applications. Road pavement tests. Modern road materials.								
	Course content – laboratory Course Content - Laboratory								
	Course Content - Laboratory								
	Soil and mineral aggregate testing. Asphalt binder testing. Bearing capacity test. Design and testing of								
	asphalt mixtures.								
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Dranaguiaitas									
Prerequisites									
and co-requisites									
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade						
and criteria		55.0%	100.0%						
und ontona	passing								
Recommended reading	Basic literature	1. Piłat J., Radziszewski P., Nawier	zchnie asfaltowe, WKŁ, 2004						
9									
		2. Szydło A.,: Nawierzchnie drogow	zchnie drogowe z betonu cementowego, Polski						
		Cement, 2004							
		3. Błażejowski K., Styk S., Technologia warstw asfaltowych, WKŁ, 2005							
		4. Edel R., Odwodnienie dróg, WKŁ	. ZUUZ						
		5 Della C. Dadania material/	Della O. Dadania material (na dra na 11 1444) 1605						
		5. Rolla S., Badania materiałów drogowych, WKŁ, 1985							
		6. Nowości techniki zagranicznej, zeszyty IBDiM Warszawa							
	Supplementary literature	7. The Asphalt Handbook, AI, 1989							
		8. Lilley, A Handbook of Segmental Paving, 1991							
	eResources addresses								
Example issues/									
example questions/									
tasks being completed									
Practical activites within	Not applicable								
the subject									
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