

Subject card

Subject name and code	Modern technologies in road works, PG_00059876								
Field of study	Civil Engineering								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
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			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor		dr hab. inż. Piotr Jaskuła						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	roject Seminar		SUM	
of instruction	Number of study hours	15.0	15.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		2.0		18.0		50	
Subject objectives	Learning about the latest road works technologies.								
Learning outcomes	Course outcome Subject outcome Method of verification								
	[K7_K01] is aware of necessity of professional competences improvement; obeys the professional ethics code		The latest technologies for asphalt and portland concrete layers and road pavements.			[SK4] Assessment of communication skills, including language correctness			
	[K7_W07] has expanded knowledge of theory of road and airport pavements, pavement maintenence, advanced methods of material testing and contruction technologies		Mechanistic and empirical pavement design. Pavement diagnostics. Pavement assessment and impact on maintenance scenarios.			[SW2] Assessment of knowledge contained in presentation			
	[K7_W15] has deep and adequate knowlege of civil engineering, within offered specialization and profile		Selecting modern road works technology.			[SW1] Assessment of factual knowledge			
	[K7_U15] has advanced skills in civil engineering within offered specialization/profile		Selecting modern road works technology.			[SU2] Assessment of ability to analyse information			
	[K7_U08] Is able to evaluate technical conditio of a road, to design its pavement and choose proper construction technology using mechanistic methods and material investigations		Selection of modern road works technology.			[SU2] Assessment of ability to analyse information			
Subject contents	Recycling of concrete pavements. Recycling of asphalt pavements. Geosynthetics in asphalt pavement layers. Modern assessment of pavement condition and smart pavement and the use of measurements for maintenance scenarios. The use of additives in nasphalt mixtures.								
Prerequisites and co-requisites									
Assessment methods	Subject passing criteria		Passing threshold			Per	Percentage of the final grade		
and criteria			55.0%			100.0%			

Data wygenerowania: 21.11.2024 21:24 Strona 1 z 2

Recommended reading	Basic literature	home N., Principles of pavement engineering, second edition, 2013					
		Piłat J., Radziszewski P., Nawierzchnie asfaltowe, WKiŁ, 2007					
	Supplementary literature	home N., Principles of pavement engineering, second edition, 2013					
		Piłat J., Radziszewski P., Nawierzchnie asfaltowe, WKiŁ, 2007					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Functions of geosynthetics in asphalt layers.2. Hot recycling of asphalt layers.						
Work placement	Not applicable						

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Data wygenerowania: 21.11.2024 21:24 Strona 2 z 2