

## Subject card

Subject name and code	Roads and Streets, PG_00044660								
Field of study	Transport								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
Education level	first-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	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Transportation Engine			Environ	mental Engineering				
Name and surname	Subject supervisor		dr inż. Jacek Alenowicz						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ect Seminar		SUM	
	Number of study hours	30.0	0.0	15.0	0.0		0.0	45	
	E-learning hours inclu	uded: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes included plan			Participation in consultation hours		udy	SUM	
	Number of study hours	45		5.0		50.0		100	
Subject objectives	Obtaining basic knowledge of road materials (soil, aggregates, bitumens, asphalt mixtures), pavementstructures, earthworks, drainage of roads.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U13] able to select tools and methods, carry out assessments and simple tests of transport infrastructure and means of transport to an extent required of the specialty / learning profile		The student can choose the quality of the materials needed to build of the road. The student is able to develop a simple technical specification for the designed road section						
	[K6_W18] has proficiency in transport infrastructure as appropriate for their specialty		The student has knowledge to design a pavement structure for traffic and soil conditions and level of water in the soil and define requirements concerning materials and technology.						
Subject contents	The cross-section of the road. Basic rules for the implementation of earthworks and road drainage. Types ofroad pavements. Concrete pavements. Geosynthetics in road construction. Road materials: rock andaggregates, bitumen, asphalt mixtures. Improved subgrade, Base courses. Asphalt pavements. Soil survey, bitumen and asphalt mixtures. Design of flexible and rigid pavements.								
Prerequisites and co-requisites					_				
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria laboratory					40.0%				
	lectures		60.0%			60.0%			
Recommended reading	Basic literature		1. Piłat J., Radziszewski P.: Nawierzchnie asfasltowe. WKŁ 20042. Błażejowski K., Styk S.: Technologia warstw asfaltowych. WKŁ 20093. Judycki J i wsp.: Analizy i projektowanie konstrukcji nawierzchni podatnych i półsztywnych. WKŁ 2014						
			1. Szydło A.: Nawierzchnie drogowe z betonu cementowego. Polski Cement. 2004.2. Edel R. Odwodnienie dróg, WKiŁ, 20103. Głążewski M. i wsp. Roboty ziemne i rekultywacyjne w budownictwie komunikacyjnym, WKiŁ, 2010						

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	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Properties of road bitumens.The reso	earch of subgrade capacityDesigning a flexible pavement structures.
Work placement	Not applicable	

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