

Subject card

Subject name and code	Roads and Streets, PG_00044660							
Field of study	Transport							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2025/2026		
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	,		eering -> Faculty of Civil and Environ			mental Engineering		
Name and surname	Subject supervisor							
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	e Lecture Tutori		utorial Laboratory Project			Seminar	SUM
of instruction	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 include 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_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.					
	[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					
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	hods Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	lectures		60.0%			60.0%		
	laboratory		100.0%			40.0%		
Recommended reading	Basic literature		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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