



Subject card

Subject name and code	Technology of Highway Works , PG_00044227						
Field of study	Civil Engineering						
Date of commencement of studies	October 2020		Academic year of realisation of subject		2023/2024		
Education level	first-cycle studies		Subject group		Optional subject group		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Jacek Alenowicz				
	Teachers		dr inż. Jacek Alenowicz				
			dr inż. Bohdan Dołżycki				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	15.0	0.0	30
	E-learning hours included: 0.0						
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	30		5.0		40.0	75
Subject objectives	Widening of knowledge in the field of road works technology.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W10] Has basic knowledge on design, construction and maintenance of roads and railroads		Student recognizes and classifies operational sequence of road construction. Student defines and describes choice of suitable road construction plant and materials.				
	[K6_U17] has specialized skills in civil engineering within offered specialization		Student has ability to recognize adequate technological processes in road construction. Student has ability to chose suitable road construction plant and materials.				
	[K6_W16] Has deeper and adequate knowlege of civil engineering, within offered specialization		Student has organized and extended knowledge on road and motorway construction.				
Subject contents	Lectures: Execution of earthworks. Technology of soil stabilization. Construction of bituminous layers. Technology of concrete pavements. Cold and hot recycling of asphalt pavements.						
	Designing: Design of strenghtening of poor subgrade soil and pavement layers with use of geosynthetics. Planning of execution of selected road technology activities. Design of hot mix asphalt mixture with reclaimed asphalt pavement.						
Prerequisites and co-requisites	Knowledge from the subject ROAD AND MOTORWAY CONSTRUCTION (BPS017)						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Project		100.0%		50.0%		
	Test		60.0%		50.0%		

Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Piłat J., Radziszewski P., Nawierzchnie asfaltowe, WKŁ, 20010 2. Szydło A.: Nawierzchnie drogowe z betonu cementowego, Polski Cement, 2004 3. Błażejowski K., Styk S., Technologia warstw asfaltowych, WKŁ, Warszawa, 2009 4. Głażewski M., Nowocień E., Piechowicz K., Roboty ziemne i rekultywacyjne w budownictwie komunikacyjnym, WKŁ, Warszawa, 2011
	Supplementary literature	Judycki J., Alenowicz J., Nowoczesne metody renowacji nawierzchni asfaltowych., WKŁ Warszawa 1988
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	