

## Subject card

Subject name and code	, PG_00060094								
Field of study	Civil Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	3		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						
		mgr inż. Artur	nż. Artur Ryś						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	0.0		30.0	30	
	E-learning hours included: 0.0								
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=19863								
Learning activity and number of study hours	Learning activity	Participation in classes include plan				Self-study		SUM	
	Number of study hours	30		0.0		0.0		30	
Subject objectives	Getting acquainted with the development in the field of materials and technologies used in road construction, with special focus on advanced laboratory testing and assessment of the quality of road materials and works. Own evaluation and proposal of independent solutions of problems from the field of road traffic engineering.								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[K7_W15] has deep and adequate knowlege of civil engineering, within offered specialization and profile		The student has knowledge related to the assessment of the properties of road materials, road technologies and road traffic engineering.			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
	[K7_U06] is able to choose proper tools (measuring, analytical or numerical) to solve engineering problems, to acquire, filtrate, proces and analyse data		The student is able to plan and conduct experiments related to the assessment of the properties of road materials, road technologies and road traffic engineering and to perform analysis of the results.			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information			
	[K7_U15] has advanced skills in civil engineering within offered specialization/profile		The student is able to define and evaluate the properties of road materials, road technologies and factors important in road traffic engineering.			[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject			
	[K7_K01] is aware of necessity of professional competences improvement; obeys the professional ethics code		The student is aware of the need to improve professional and personal competences; including professional ethics because of development in material engineering and technologies as well as traffic engineering			[SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice			

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and co-requisites  Assessment methods and criteria  Completness of presentation,  sterowanie ruchem drogowym" in sem II.  Passing threshold Percentage of the final completness of presentation, 60.0%  Subject passing criteria Passing threshold Percentage of the final completness of presentation, 60.0%								
and criteria Completness of presentation, 60.0% 50.0%								
obmpletices of presentation,	al grade							
knowledge								
Form of presentation and discussion 60.0% 25.0%								
Activity during seminars 50.0% 25.0%								
międzynarodowych: RILEM, AAPT Amerykańskie raporty bac Road Materials and pavement Design, International Journal o Pavement Engineering, internet, S. Datka, W. Suchorzewski,	międzynarodowych: RILEM, AAPT Amerykańskie raporty badawcze, Road Materials and pavement Design, International Journal of Pavement Engineering, internet, S. Datka, W. Suchorzewski, M. Tracz, Inżynieria ruchu, W. S. Młodożeniec Budowa dróg - podstawy							
Supplementary literature internet	nentary literature internet							
eResources addresses Adresy na platformie eNauczanie:	eResources addresses Adresy na platformie eNauczanie:							
Example issues/ example questions/ tasks being completed  Evaluation of the cracking resistance of asphalt mixtures.  Evaluation of the design strength of geosynthetics in engineering structures.								
Evaluation of recycled asphalt pavement (RAP) quality.	Evaluation of recycled asphalt pavement (RAP) quality.							
Contemporary bridge pavements.	Contemporary bridge pavements.							
Transportation problems in mass events.	Transportation problems in mass events.							
Road class as an indicator of its accessibility.	Road class as an indicator of its accessibility.							
Selection of intersection type in built-up areas.	Selection of intersection type in built-up areas.							
Combining of pedestrian/bicycle/car traffic in common area.								
Work placement Not applicable	Not applicable							

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