

## Subject card

Subject name and code	, PG_00064565							
Subject name and code Field of study	Civil Engineering							
Date of commencement of	October 2022		Academic year of		2024/2025			
studies	first sucle studies		realisation of subject					
Education level	first-cycle studies		Subject group		at the university			
Mode of study			Mode of delivery		at the university Polish			
Year of study	3		Language of instruction			3.0		
Semester of study	general academic profile		ECTS credits			assessment		
Learning profile	,		Assessment form					
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering  Subject supervisor dr inż. Marcin Stienss							
Name and surname of lecturer (lecturers)	Teachers	dr inż. Marcin Stienss dr inż. Marcin Budzyński						
			dr inż. Marcin Stienss					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM
of instruction	Number of study hours	10.0	10.0	0.0	0.0		0.0	20
	E-learning hours inclu	ıded: 0.0			ļ			
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	20		0.0		0.0		20
Subject objectives	Getting basic knowledge on geometrical design of roads, road earthworks and pavement subsoil.							
Learning outcomes	Course outcome Subject outcome Method of verification						fication	
	[K6_U02] Analyse & solve engineering issues & problems in the field of civil engineering by applying appropriate and relevant established analytical, numerical and experimental methods.		After completing the course, the student has the ability to calculate the parameters of a road route in plan and longitudinal profile and to determine the parameters of a cross-section.			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment		
	[K6_U03] Design engineering objects and details, processes and engineering systems by applying appropriate standards and methods of design.		After completing the course, the student has the ability to design a normal cross-section of a rural road, in accordance with the technical knowledge and requirements specified in the relevant regulations.		[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
	[K6_W03] Demonstrate knowledge and understanding of the processes, established standards and design methods in the civil engineering subject area and of their limitations.		After completing the course, the student has the ability to design a preliminary road route in accordance with the technical knowledge and requirements specified in the relevant regulations.		[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
Subject contents	Road users and vehicles. Road and motorway design process. Basic parameters for road design. Designing of cross section, vertical and horizontal alignments. Road capacity. Road safety. Earthworks - design and basic rules of execution. Road drainage.							
Prerequisites and co-requisites								

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade	
and criteria	Design of a road section	100.0%	100.0%	
Recommended reading		<ol> <li>Węzły drogowe i autostradowe. Praca pod red. Prof. R. Krystka. WKiŁ Warszawa, 2008.</li> <li>Gaca S., Suchorzewski W., Tracz M.: Inżynieria Ruchu drogowego. Teoria i praktyk. WKŁ Warszawa 2009</li> <li>Edel R., Odwodnienie dróg , WKŁ, Warszawa 2009</li> <li>Wiłun Z. Zarys geotechniki, WKŁ, 2013</li> </ol>		
		<ol> <li>Głażewski M., Nowocień E., Piechowicz K. Roboty ziemne i rekultywacyjne w budownictwie komunikacyjnym, WKŁ, 2011.</li> <li>Rozporządzenie Ministra Infrastruktury z dnia 24 czerwca 2022 w sprawie przepisów techniczno-budowlanych dotyczących dróg publicznych.</li> <li>Wytyczne rekomendowane dotyczące dróg publicznych publikowane przez Ministerstwo Infrastruktury.</li> </ol>		
	eResources addresses	Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed				
Work placement	Not applicable			

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