

Subject card

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Subject name and code	Design of road intersections and interchanges, PG_00044344								
Field of study	Civil Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group			Optional subject group			
Mode of study	Part-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	Subject supervisor		dr inż. Joanna Wachnicka						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	oject Seminar		SUM	
	Number of study hours	10.0	10.0	0.0	0.0		0.0	20	
	E-learning hours inclu	ıded: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation h	ticipation in sultation hours		udy	SUM	
	Number of study hours	20	5.0			50.0		75	
Subject objectives	The aim of the course is to broaden the student's knowledge of designing road junctions and intersections together with the practical graphic design of a road junction.								
Learning outcomes	Course outcome Subject outcome Method of verification					fication			
	[K7_W06] has expanded knowledge about traffic theory, planing of road networks and junctions design, regarding economy, safety and environmental aspects		The student is able to design road junctions and intersections in many aspects, taking into account geometric, traffic, efficiency and safety parameters.						
	[K7_U07] is able to design elements of road network, to apply the rules of traffic organisation and control, taking into account economy, safety and environmental factors,		The student is able to properly design a road junction.						
Subject contents	Types of road junctions, their elements and principles of their selection. Advantages and disadvantages of using various types of solutions on the nodes. Security problems in the areas of nodes, visibility, throughput and broadly understood functionality. Design requirements for nodes and the ability to apply the acquired knowledge in design practice, Classic and innovative approach to designing intersections, new geometric solutions at intersections. Rules for selecting intersections.								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	passing the lectures		51.0%		20.0%				
	road junction design		51.0%						
Recommended reading	Basic literature		R. Krystek, <i>Węzły drogowe i autostradowe</i> . WKŁ, 2008.						
		Dz.U. 2019 poz. 1643							

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	Supplementary literature	WRD-32-2 Wytyczne projektowania węzłów drogowych. Elementy węzłów.				
		WRD-32-1 Wytyczne projektowania węzłów drogowych. Wymagania podstawowe.				
		WRD-32-3 Wytyczne projektowania węzłów drogowych. Wyposażenie techniczne.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Design a road junction with the assumed traffic parameters.					
Work placement	Not applicable					

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