



Subject card

Subject name and code	, PG_00069221						
Field of study	Projektowanie ulic						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		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		5.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Marcin Budzyński				
	Teachers		dr inż. Marcin Budzyński				
			dr inż. Joanna Wachnicka				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	30.0	0.0	0.0	0.0	45
	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	45		7.0		10.0	62
Subject objectives	Gaining theoretical and practical knowledge in the field of street intersection design along with infrastructure elements for pedestrians, cyclists and public transport.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K04] Engages in independent lifelong learning and individually follows the development of science and technology in the field of civil engineering.		Students refine and consolidate their knowledge of road intersection design. They hone their ability to assess intersection performance.		[SK1] Ocena umiejętności pracy w grupie [SK2] Ocena postępów pracy [SK3] Ocena umiejętności organizacji pracy [SK4] Ocena umiejętności komunikacji, w tym poprawności językowej [SK5] Ocena umiejętności rozwiązywania problemów występujących w praktyce		
	[K6_K03] Can effectively, clearly and unambiguously convey information, describe activities and communicate their results/ outcomes to engineers or a wider audience using appropriate communication methods and tools.		The student is able to identify an engineering problem in the form of a malfunctioning intersection. They are able to find a solution in the form of variants, based on the intersection design concept.		[SK1] Ocena umiejętności pracy w grupie [SK2] Ocena postępów pracy [SK3] Ocena umiejętności organizacji pracy [SK5] Ocena umiejętności rozwiązywania problemów występujących w praktyce		
Subject contents	Course content – lecture Intersection Classification. Intersection Elements and Design Principles Criteria for Assessing the Functionality and Safety of Intersections (Visibility, Passability, Collision Risk, Recognizability, and Readability) Detailed Selection of Design Parameters Examples of Intersection Errors						
	Course content – exercises Identification of design flaws at selected intersections - photos, designs. The process of selecting an intersection for redesign Variant design of a selected intersection - concept with infrastructure elements for pedestrians, bicycles, and public transport						
Prerequisites and co-requisites	Passing the exam and design in the V and VI semesters in the Roads and Highways subject						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Active attendance at classes	80.0%	40.0%
	Project execution	60.0%	60.0%
Recommended reading	Basic literature	WR-D-31-1 Guidelines for the Design of Road Intersections. Part 1: Basic Requirements WR-D-31-2 Guidelines for the Design of Road Intersections. Part 2: Standard and Channelized Intersections WR-D-31-3 Guidelines for the Design of Road Intersections. Part 3: Roundabouts	
	Supplementary literature	Stanisław Gaca, Wojciech Suchorzewski, , Marian Tracz: Road Traffic Engineering. Theory and Practice, Wydawnictwa Komunikacji i Łączności, 2008	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Fieldwork - inventory and evaluation of the existing intersection. Students' own work identifying possible design solutions		
Practical activities within the subject	Not applicable		

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