

Subject card

Subject name and code	Designing streets and intersections, PG_00044205								
Field of study	Civil Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			2.0			
Learning profile	general academic profile		Assessmer	sessment form		assessment			
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering								
Name and surname of lecturer (lecturers)	Subject supervisor		mgr inż. Tomasz Mackun						
	Teachers		mgr inż. Tomasz Mackun						
			mgr inż. Artui	⁻ Ryś					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	15.0	0.0	15.0		0.0	30	
	E-learning hours included: 0.0								
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=12865								
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		15.0		50	
Subject objectives	Acquiring knowledge in the design of selected elements of road infrastructure								

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
J. T.	[K6_W10] Has basic knowledge on design, construction and maintenence of roads and railroads	The student learns the rules constructing elements road infrastructure The student knows how to design selected infrastructure elements road The student is able to take into account the impact of designed elements on environment	[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects				
	[K6_U13] knows principles of constrution of roads and railroads; can design a section of a road and railroad; can evaluate the technical condition of a road and railroad infrastructure	The student has the ability to design urban infrastructure in the form of an intersection, infrastructure for pedestrians and cyclists, parking bays and bus stops.	[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task				
	[K6_W09] knows the principles of determining of loads acting on basic constructions (e.g. general, industrial, bridge, water, marine, transport objects) and rules of its constructing	The student is knowledgeable about design of intersections road, sewage and non-sewage systems and roundabouts, no road design theme for bicycles, sidewalks, parking lots and bus stops	[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects				
	[K6_W15] Has knowlege of construction law and environmetal impact of investment realisation	The student has knowledge of the provisions of road infrastructure design and road traffic law.	[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects				
Subject contents	General information on the design of intersections 2. General information on the design of road junctions Detailed rules of designing roundabout intersections 4. Detailed principles of designing selected elements of road junctions 5. Designing elements of road infrastructure in cities - bus stops, parking lots, roads bicycle, sidewalks						
Prerequisites and co-requisites	The knowledge obtained at the stage	e of the sem. 5 as part of Roads and	Highways Construction				
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Attendance	80.0%	30.0%				
	Implementation of the project	70.0%	70.0%				
Recommended reading	Basic literature	Basic literature Warunki techniczne jakim powinny odpowiadać drogi publiczne, 199					
	Supplementary literature Praca zbiorowa, red. R. Krystek Węzły drogowe i autostradowe, Wł 2008 Wytyczne projektowania skrzyżowań, GDDP, 2008						
	eResources addresses Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Design a roundabout intersection						
	2. Design elements of road infrastructure in the city - sidewalks, bicycle routes, stops buses, parking lots						
Work placement	Not applicable						

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