



Subject card

Subject name and code	Roads Motorways I, PG_00049147						
Field of study	Civil Engineering						
Date of commencement of studies	October 2023		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	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Jacek Alenowicz				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	15.0	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		5.0		25.0	75
Subject objectives	Getting basic knowledge on geometrical design of roads, road earthworks and pavement subsoil.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
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 and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Design of a road section		100.0%		100.0%		
Recommended reading	Basic literature		1. Węzły drogowe i autostradowe. Praca pod red. Prof. R. Krystka. WKiŁ Warszawa, 2008. 2. Gaca S., Suchorzewski W., Tracz M.: Inżynieria Ruchu drogowego. Teoria i praktyk. WKŁ Warszawa 2009 3. Edel R., Odwodnienie dróg , WKŁ, Warszawa 2009 4. Wiłun Z. Zarys geotechniki, WKŁ, 2013				
	Supplementary literature		1. Głazewski M., Nowocień E., Piechowicz K. Roboty ziemne i rekultywacyjne w budownictwie komunikacyjnym, WKŁ, 2011. 2. Warunki techniczne jakim powinny odpowiadać drogi publiczne i ich usytuowanie. Dziennik Ustaw, Warszawa 2016				
	eResources addresses						
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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