

Subject card

Subject name and code	Traffic Engineering, PG_00056201								
Field of study	Transport and Logistics								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Jacek Nakielski						
	Teachers		dr inż. Jacek						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	0.0	0.0	0.0		0.0	30	
	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 30			5.0		15.0		50		
Subject objectives	- familiarization with methods to improve the efficiency and safety in the transport of water and land,								
	- understanding of the basic principles of traffic control aquatic and terrestrial;								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U07] applies knowledge on humanities, social and economical science in solving problems		It is not a humanistic subject The student knows the structure and principles of operation of water and land transport systems			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject			
	[K6_W07] has a general knowledge on humanities, social and economical sciences. Knows the rules of creating the forms of personal entrepreneurship and economic activity, has knowledge on the protection of intellectual property rights and industrial property rights and copyrights		It is not a humanistic subject. The student is able to assess the structure of the transport system in terms of efficiency, ecology and safety			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation			

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Subject contents	- the role of traffic engineering in va	rious fields of transportation					
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	- the nature of the marine environment,						
	- rules for the organization of maritin						
	- safety of navigation in restricted areas,						
	- elements of the safety of the ship: the drive maneuverability, carrying cargo, navigation equipment,						
	- inland waterways: European transport routes, class, facts, investments,						
	- infrastructure of inland waterways, transport						
	- pilotage waterways,						
	- railways: European transport routes, class, investment trends,						
	- railway infrastructure, means of transport;						
	 principles of rail traffic, traffic control systems, roads: European transport routes, class, investment trends, motorways, road junctions, horizontal and vertical signage, traffic control systems, 						
	- security threats on Polish roads						
	- ports and logistics centers: construction planning, organization;						
Prerequisites	Basic knowledge on the structure of means of transport						
and co-requisites			I				
Assessment methods and criteria	Subject passing criteria colloquium	Passing threshold 60.0%	Percentage of the final grade 100.0%				
Recommended reading	Basic literature	GUCMA, S.: Inżynieria ruchu morsł Gdańsk 2001.					
		JAGNISZCZAK, I., ŁUSZNIKOW, E.: Bezpieczeństwo nawigacji. Fundacja Promocji Przemysłu Okrętowego i Gospodarki Morskiej. Gdańsk 2010.					
		KOLASZEWSKI, A., ŚWIDWIŃSKI P.: Żeglarz i sternik jachtowy. Almapress, Wa-wa 2002.					
		DĄBROWSKA-BAJON, M.: Podstawy sterowania ruchem kolejowym, Politechnika Warszawska, Warszawa 2002.					
		CIEŚLAKOWSKI, S.: Stacje kolejowe. Wydawnictwa Komunikacji i Łączności, Wa-wa 1992.					
		GACA, S., SUCHORZEWSKI, W., drogowego. Teoria i praktyka. WKŁ	, S., SUCHORZEWSKI, W., TRACZ, M.: Inżynieria ruchu wego. Teoria i praktyka. WKŁ, 2011				
		KRYSTEK, R.: Węzły drogowe i autostradowe. WKŁ 2008,					

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	eResources addresses	Podstawowe
		https://www.researchgate.net/profile/Bogusz-Wisnicki/publication/ 281292577_Vademecum_konteneryzacjiFormowanie_kontenerowej_jednostki_ladunkowej/links/ 578548dd08aec5c2e4e11c3b/Vademecum-konteneryzacji- Formowanie-kontenerowej-jednostki-ladunkowej.pdf - forming a container load unit
		https://pdf.nauticexpo.com/pdf/mac-gregor/cargo-handling-book/ 30588-103189.html - McGregorr Cargo Handling Book
		https://mgm.gov.pl/wp-content/uploads/2017/11/ ekspertyza_rozwoju_srodladowych_drog_wodnych.pdf - Expert opinion on the development of inland waterways in Poland
		https://dbc.wroc.pl/Content/1322/PDF/ srodladowy_transport_wodny.pdf - KULCZYK, WINTER: Inland water transport
		Adresy na platformie eNauczanie:
		Inżynieria ruchu (PG_00056201) - WYKŁAD - WIMiO, TiL, Systemy Transportu Wodnego, sem 4, roka akademicki 2023/2024, lato - Moodle ID: 37295 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37295
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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