

Subject card

Subject name and code	Intelligent Transportation Systems, PG_00060657								
Field of study	Transport and Logistics								
Date of commencement of	October 2023	Academic year of			2025/2026				
studies	00.0001 2020		Academic year of realisation of subject			2023/	2025/2026		
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
							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	5		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Zakład Projektowania Okrętu -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology							neering and	
Name and surname	Subject supervisor		prof. dr hab. inż. Jakub Montewka						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	0.0	0.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes included		Participation in consultation hours		Self-study		SUM	
	Number of study hours	15		1.0		9.0		25	
Subject objectives	The aim of the course is to acquaint students with the basic issues related to modern, intelligent technologies used in multimodal transport. To this end the most important aspects are presented in the field of modern solutions in transport systems, especially in terms of telematics, digitization, automation and robotization. An important part of the course are exercises in which the student analyzes a selected topic in terms of intelligent technologies in multimodal transport.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W08] has knowledge of the principles of sustainable development		The student is aware of the need to develop in a sustainable manner, taking into account a number of aspects related to a given system and the environment in which this system operates.			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_W05] has established knowledge in the field of design, construction and operation of transport means and systems		The student is able to indicate the main elements related to the process of design, construction and operation of maritime transport systems and the means of transport used.			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_K01] is aware of the need for continuous improvement in the field of the profession and knows the possibilities of further education		The student is aware of the pace at which detailed knowledge increases in a dynamic world. Equipped with general knowledge, he is aware of the need to update specific knowledge.			[SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	The importance of new and intelligent technologies in transport. Modern technical and technological solutions in multimodal transport. The influence of technology on the development of transport and logistics. Intelligent systems in transport - challenges of the 21st century. Modern management systems in transport, digitization and modern technologies in transport companies. The idea of sustainable transport development, smart city, smart ports, smart terminals. Modern concepts in logistics, modern IT techniques in logistics. Advanced technologies in logistics and warehousing. Artificial intelligence in logistics and transport optimization. Modern cargo identification systems. Modern reloading equipment and means of transport. Telematics, Modern technologies and management systems in land (road, rail), sea and air transport. Safety in transport, new technologies and challenges. Transport of the future.								
Prerequisites and co-requisites	The student should have basic knowledge related to modern solutions in transport systems, logistics and intelligence of the systems.								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Lectures	51.0%	50.0%				
	Assignments	51.0%	50.0%				
Recommended reading	Basic literature	 Duraj, J., Papiernik-Wojdera, Ninnowacyjność. Warszawa, Difi Cortin S., Vitale J., Kelly E., Can Deloitte University Press, 2015 Engelhardt Juliusz, Nowoczest przewozach intermodalnych, W. Red. Joanna Gonicka, Nowocz transporcie, AH-E Łódź 2010 Modelewski K., Inteligentny trait Sładkowski A., Pamuła W., Inter Problems and Perspectives, Sp. Wojewódzka-Król K., INNOWA Zrównoważony rozwój. Integratinteligencja, PWN 2021 	 Duraj, J., Papiernik-Wojdera, M., Przedsiębiorczość i innowacyjność. Warszawa, Difin 2010 Cortin S., Vitale J., Kelly E., Cathles E.: The future of mobility. Deloitte University Press, 2015 Engelhardt Juliusz, Nowoczesne systemy transportowe w przewozach intermodalnych, WNUS Szczecin 2020 Red. Joanna Gonicka, Nowoczesne technologie w informatyce i transporcie, AH-E Łódź 2010 Modelewski K., Inteligentny transport, Poligraf 2018 Sładkowski A., Pamuła W., Intelligent Transportation Systems Problems and Perspectives, Springer 2016 Wojewódzka-Król K., INNOWACJE W TRANSPORCIE, Zrównoważony rozwój. Integracja gałęzi transportu. Sztuczna inteligencja, PWN 2021 Załoga E., Liberacki B., Innowacje w transporcie. Korzyści dla 				
	Supplementary literature	Rydzkowski Wł., Współczesna polityka transportowa, Polskie Wydawnictwo Ekonomiczne 2017 dr hab. Katarzyna Śledziewska, prof. UW, dr hab. Renata Włoch, prof. UW, Gospodarka cyfrowa. Jak nowe technologie zmieniają świat, Wyd. UW, Warszawa 2020					
	eResources addresses						
Example issues/ example questions/ tasks being completed	None						
Work placement	Not applicable						

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