

Subject card

Cubicat name and code	New Technologies in Transport, PG_00057863								
Subject name and code	Transport and Logistics, Transport and Logistics								
Field of study									
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
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	6		ECTS credits			3.0			
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	Subject supervisor		dr hab. inż. Damian Bocheński						
of lecturer (lecturers)	Teachers		mgr inż. Izabela Szwoch						
	dr hab. inż. Damian Bocheński								
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	30.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		5.0		25.0		75	
Subject objectives	The aim of the course is to acquaint the Student with the basic knowledge of innovative/ modern technologies in transport systems, means of long and short-distance transport, logistics and transport management systems. It is important to present aspects in intelligent transport systems and safety improvement in transport innovations.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W05] has an organized knowledge on design, construction and operation of means and systems of transport		The student is able to develop and prepare action diagrams and discuss the possibilities in a given subject area			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
	[K6_W08] has knowledge regarding the principles of sustainable development		The student is able to discuss, design and analyze modern transport systems in all areas of transport			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
Subject contents	The importance of new technologies in transport, The influence of technology on the development of transport and logistics. Innovative solutions in the transport of goods and people, the idea of sustainable transport development, smart city. 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 devices and means of transport. Telematics, Intelligent systems in transport - challenges of the 21st century. Modern management systems in transport, digitization and modern technologies in transport companies. 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 general knowledge related to means of transport, transport infrastructure and intelligent transport systems.								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	project		50.0%		50.0%				
	lecture		50.0%			50.0%			

Data wydruku: 19.04.2024 09:09 Strona 1 z 2

Recommended reading	Supplementary literature	 Długosz J., Nowoczesne technologie w logistyce, PWE 2017 Duraj, J., Papiernik-Wojdera, M., Przedsiębiorczość i innowacyjność. Warszawa, Difin 2010 Red. Joanna Gonicka, Nowoczesne technologie w informatyce i transporcie, AH-E Łódź 2010 Modelewski K., Inteligentny transport, Poligraf 2018 Rydzkowski Wł., Współczesna polityka transportowa, Polskie Wydawnictwo Ekonomiczne 2017 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 Wojewódzka-Król K., Załoga E., Transport, Nowe wyzwania, PWN 2016 Załoga E., Liberacki B., Innowacje w transporcie . Korzyści dla użytkownika, WNUS, Szczecin 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 			
	eResources addresses	Adresy na platformie eNauczanie: Nowoczesne techniki w transporcie, W, TiL, sem. 6, lato 22/23 - Moodle ID: 30421 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30421			
Example issues/ example questions/ tasks being completed	List and characterize pro-ecological / innovative activities in passenger transport Discuss the operation of intelligent transport systems in transport				
Work placement	Not applicable				

Data wydruku: 19.04.2024 09:09 Strona 2 z 2