

## Subject card

Subject name and code	Automation of Processes and Means of Transportation, PG_00060674								
Field of study	Transport and Logistics								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2027/2028			
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		Assessment form			assessment			
Conducting unit	Division Of Marine Structural Engineering -> Institute Of Naval Architecture -> Faculty Of Mechanical Engineering And Ship Technology -> Wydziały Politechniki Gdańskiej						hanical		
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Ryszard Pyszko						
	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	15.0	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		2.0		18.0		50	
Subject objectives	The objectives of the course are to familiarize students with the issues: - improving efficiency in freight and passenger transport processes, - efficient use of means of transportation, - reducing adverse environmental effects associated with transportation, -providing the needed integration of various modes of transport, - Identification of constraints of a technical, economic, organizational nature.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W04] has well established knowledge in the field of computer science, electronics, automation and control, information technology and computer graphics, useful for understanding the possibilities of applying them in transport		his own (using a spreadsheet) to			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
	[K6_U04] is skilled in self- educating in order to develop his professional qualifications, is prepared to work in an industrial environment, applies the principles of occupational health and safety		The student is familiar with the regulations applied in the transport industry regarding the transport environment and health and safety rules			[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment			
	[K6_U01] can obtain information from literature, databases and other sources; verify and systematize the information obtained, interpret it and draw conclusions, formulate and justify opinions		The student is able to carry out the selection of the means of transport for the task set in the order			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment			

Subject contents	1.Automation of transport processes and means 2.Logistics chain 3.Warehousing 4.Open and semi-open warehouse 5.Distribution channels 6.Inventory in logistics 7.Distribution channels 8.Warehouse susceptibility 9.Commodity picking 10.RIFD system11.Storage regulations 12.Warehouse automation13.Automation of means of transport 14.Autonomy of means of transport						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Exercises	60.0%	50.0%				
	Lecture	60.0%	50.0%				
Recommended reading	Basic literature	Wojewódzka-Król Krystyna, Załoga Elżbieta, Transport New Challenges; Wydawnictwo Naukowe PWN S.A.; ISBN: 978-83-01-18462-9; Warszawa, 2016W. Choromanski, I. Grabarek. M Kozłowski, M. Czerepicki, K. Marczuk, Autonomous vehicles and autonomous transport systems, Wydawnictwo Naukowe PWN, Warsaw, 2020Emilia SCZANIECKA, Angelika SURMA* AUTOMATIC HIGH STORAGE STORAGE AS THE FUTURE OF STORAGE - JOURNAL OF TRANSLOGISTICS - article.Translated with www.DeepL.com/Translator (free version)					
	Supplementary literature	Journals, websites of institutions dealing with maritime economy, transport  Portal Morski - Wiadomości morskie z kraju i ze świata					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Explain the concept of automation and means of transportation? Explain how the concept of autonomy of means of transportation is to be understood? What is storage, phases, storage systems?						
Work placement	Not applicable						

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