GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Advanced transportation systems, PG_00057114		
Field of study	Transport and Logistics		
Date of commencement of studies	February 2023	Academic year of realisation of subject	2022/2023
Education level	second-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	1	Language of instruction	Polish
Semester of study	1	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 of lecturer (lecturers)	Subject supervisor	dr inż. Agnieszka Maczyszyn	
	Teachers	dr inż. Agnieszka Maczyszyn	

Lesson types and methods of instruction							
	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	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 didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
	Number of study hours	45	9.0	21.0	75

Subject objectives

The aim of the course is to familiarize students with the new challenges facing transport.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W03] The student has extensive knowledge of: reliability and safety of transport systems and environmental protection in transport	The student knows the determinants of innovation occurring in transport.	[SW1] Assessment of factual knowledge
[K7_U06] The student is able to notice their non-technical aspects, including environmental, economic and legal aspects when formulating and solving project tasks. Applies the principles of occupational health and safety	The student is able to make a project of a transshipment device.	[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
[K7_W08] The student has a structured and extended knowledge of automation, control, management and energy efficiency in transport systems	The student can determine problems and development tendencies occurring in individual modes of transport.	[SW3] Assessment of knowledge contained in written work and projects

Subject contents

Lecture: New challenges facing transport Transport needsTransport branches - development trends and problems of enterprisesTransport in the European UnionTransport companies Issues of innovation and transport functioning Project: Execution of the design of the transshipment device involved in the transport system.

Prerequisites and co-requisites	Cargo scienceBasics of machine constructionEngineering graphics
Assessment methods and criteria	

Subject passing criteria	Passing threshold	Percentage of the final grade
Project	55.0%	50.0%
Test	55.0%	50.0%

Recommended reading	Basic literature	praca zbiorowa pod red. Wojewódzka-Król K., Załoga E., Transport nowe wyzwania, PWN, wydanie VI, Warszawa 2016 Grzybowski L., Łączyński B., Narodzonek A., Pucjalski J., Kontenery w transporcie morskim, Trademar, Gdynia 1997 Gostomski E., Nowosielski T., Międzynarodowy handel morski, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 202
	Supplementary literature	Gostomski E., Nowosielski T., Ewolucja i znaczenie portów morskich w krajach Unii Europejskiej, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2021
	eResources addresses	Adresy na platformie eNauczanie: Nowoczesne systemy transportowe, W, P, TiL, sem.01,letni 22/23 (PG_00057114) - Moodle ID: 28852 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28852
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	