GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Principles of waterborne vehicles, PG_00064995		
Field of study	Transport and Logistics		
Date of commencement of studies	February 2027	Academic year of realisation of subject	2027/2028
Education level	second-cycle studies	Subject group	Specialty 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	1	Language of instruction	Polish
Semester of study	2	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Jerzy Kowalski	
	Teachers	dr hab. inż. Jerzy Kowalski	

Lesson types

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	4.0	26.0	75

Subject objectives

The aim of the course is to familiarize students with the currently used means of water transport, their main features, purpose and limitations. In particular, the emphasis is placed on features significantly affecting operation in terms of transport tasks execution.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U04] creatively designs or modifies, either entirely or at least in part, a transport system or process according to a given specification, considering both technical and non-technical aspects, estimating costs and utilizing design techniques appropriate for tasks within the scope of Transport and Logistics	The student is able to propose tangible technical solutions in the field of transport or logistics that meet the adopted assumptions.	[SU5] Assessment of ability to present the results of task
[K7_W04] demonstrates knowledge encompassing selected issues in the field of advanced detailed knowledge, particularly in the scope of methods, techniques and tools specific to Transport and Logistics	The student presents the knowledge of transport and logistics required to solve a practical task.	[SW1] Assessment of factual knowledge
[K7_U15] evaluates the feasibility of advanced methods and tools for solving complex engineering tasks of a practical nature, characteristic of the field of study, and selects and applies appropriate methods and tools for this purpose	The student correctly chooses methods and tools appropriate to the transport or logistics related task.	[SU4] Assessment of ability to use methods and tools

Subject contents

Course content – lecture

Presentation on the specific features of ships, with particular emphasis on the type of cargo carried and the resulting operational consequences.

Prerequisites and co-requisites

Basic knowledge about transport systems.

<table>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Final exam</td><td>50.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Ship Knowledge: Ship Design, Construction and Operation, Klaas van Dokkum</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">https://namepa.net/wp-content/uploads/2018/08/Lesson-2-Types-of-Ships.pdf</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">Discuss the typical features and operational scope of bulk carriers.

Discuss the typical features and operational use of container ships.

Discuss the typical features and operational use of tankers.

Discuss the typical features and operational scope of ro-ro ships.</td></tr>
<tr><td>Practical activites within the subject</td><td colspan="3">Not applicable</td></tr>
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