



Subject card

Subject name and code	Principles of waterborne vehicles, PG_00064995						
Field of study	Transport and Logistics						
Date of commencement of studies	February 2026		Academic year of realisation of subject		2026/2027		
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 -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Przemysław Krata				
	Teachers						
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		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_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		
	[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_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		
Subject contents	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.						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Final exam		50.0%		100.0%		

Recommended reading	Basic literature	Ship Knowledge: Ship Design, Construction and Operation, Klaas van Dokkum
	Supplementary literature	https://namepa.net/wp-content/uploads/2018/08/Lesson-2-Types-of-Ships.pdf
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>Discuss the typical features and operational scope of bulk carriers.</p> <p>Discuss the typical features and operational use of container ships.</p> <p>Discuss the typical features and operational use of tankers.</p> <p>Discuss the typical features and operational scope of ro-ro ships.</p>	
Work placement	Not applicable	

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