

Subject card

Subject name and code	Design of Ship Machinery and Equipment, PG_00062689							
Field of study	Naval Architecture and Offshore Structures							
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025		
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 English		
Semester of study	2		ECTS credits		5.0			
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. Wojciech Litwin					
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM
of instruction	Number of study hours	30.0	0.0	0.0	45.0		0.0	75
	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	75		10.0		40.0		125
Subject objectives	he aim of the course is to familiarize students with the problems of designing marine machinery and equipment (lecture) and to conduct design work with students (design exercises).							

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K7_W02] Explains the essence and relationships of key components describing systems and processes in ocean engineering, utilizing current knowledge from major scientific fields related to the field of study	The student is able to evaluate the obtained calculation results	[SW1] Assessment of factual knowledge				
	[K7_W06] Capable of finding and utilizing credible sources of information crucial for analyzing issues within the field of study	The student is able to use literature and online databases	[SW1] Assessment of factual knowledge				
	[K7_K01] Understands the need for lifelong learning, critically evaluate acquired knowledge, and comprehend the significance of knowledge in addressing cognitive and practical problems	The student furthers his/her education by consulting current literature	[SK2] Assessment of progress of work				
	[K7_W03] Demonstrates advanced skills in applying analytical methods and problem- solving techniques related to ocean engineering, using appropriate tools	The student is able to solve a design task, perform calculations and make drawings	[SW3] Assessment of knowledge contained in written work and projects				
	[K7_U02] Presents convincing and logically justified arguments regarding outcomes through critical analysis of information in diverse technical contexts and an approach to their interpretation	The student is able to evaluate the obtained calculation results.	[SU2] Assessment of ability to analyse information				
	[K7_U01] Develops innovative strategies to solve complex and dynamic problems by synthesizing information from various sources and utilizing analytical, simulation, and experimental methods, considering environmental variability	The student is able to assess what methods he or she must use to solve a specific design task.	[SU1] Assessment of task fulfilment				
Subject contents	The lecture will discuss the design of a selected group of ship devices, such as: mooring devices, anchor devices, reloading devices, as well as components of the ship's power transmission system and others. During design classes, students design devices and their components.						
Prerequisites and co-requisites	Knowledge and skills in the filed of machine design, mechanics and strength of materials.						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Lecture	50.0%	50.0%				
	design	50.0%	50.0%				
Recommended reading	Basic literature	Knowel database https://pg.edu.pl/biblioteka-pg/e-zasoby/bazy-danych					
	Supplementary literature none						
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Please discuss the typical method of mooring a ship, list the necessary devices of the mooring system and discuss and sketch the construction of a simple mooring winch						
Work placement	Not applicable						
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