

Subject card

Subject name and code	Design of Ship Machinery and Equipment, PG_00062698							
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	Part-time studies		Mode of delivery			at the university		
Year of study	1		Language of instruction			Polish none		
Semester of study	2		ECTS credits			5.0		
Learning profile	general academic profile		Assessment form		assessment			
Conducting unit	Zakład Wyposażenia Okrętu -> Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname of lecturer (lecturers)	Subject supervisor Teachers	dr hab. inż. Wojciech Litwin						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	roject Sem		SUM
	Number of study hours	18.0	0.0	0.0	27.0		0.0	45
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	45		8.0		72.0		125
Subject objectives	The 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_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_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 describe basic ship systems.	[SW1] Assessment of factual knowledge				
	[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.	[SU1] Assessment of task fulfilment				
	[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 [SK1] Assessment of group work skills				
	[K7_W03] Demonstrates advanced skills in applying analytical methods and problemsolving 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 [SW1] Assessment of factual knowledge				
	[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				
(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		100.0%	50.0%				
		50.0%	50.0%				
Recommended reading	Basic literature	Literature on the design of machines and devices.					
	Supplementary literature	no					
	eResources addresses Adresy na platformie eNauczanie:						
	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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