



## Subject card

Subject name and code	Systems and Equipment of Yachts, PG_00061841						
Field of study	Design and Construction of Yachts						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Division Of Marine Auxiliary Machinery -> Institute Of Naval Architecture -> Faculty Of Mechanical Engineering And Ship Technology -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Wojciech Leśniewski				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30		0.0		0.0	30
Subject objectives	acquiring knowledge about systems in modern yachts, to improve safety, stabilization, improvement of navigation parameters, etc.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U02] can work individually and in a team, communicate through various techniques in professional environment and also record, analyse, and present the results of work, can estimate the time needed to complete a given task		The student is able to acquire knowledge about the installation of yacht systems and shares and documents it for the needs of the team's work.		[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		
	[K6_K03] is aware of the impact of non-technical aspects on the engineer's work and the impact of engineering activities on the natural environment		Is able to understand the impact of his work and the use of appropriate technical solutions on the environment.		[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice		
	[K6_W04] has knowledge in the field of computer science, electronics, electrical engineering, automation and control, information technology, computer graphics, useful for understanding the possibilities of their use in ocean engineering		The student understands the principle of operation and the need to install systems and devices on a yacht.		[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		

Subject contents	Power systems on a yacht		
	White water systems on a yacht		
	Gray water systems on a yacht		
	Fuel systems on a yacht		
	Hydraulic systems on the yacht		
	Yacht safety systems		
	Navigation systems on a yacht		
	Ventilation and air conditioning systems on a yacht		
	Propulsion systems on a yacht		
	Stabilization and control systems on a yacht		
Prerequisites and co-requisites	Machine construction		
	Basics of electrical engineering and electronics		
	Yacht equipment		
	Electric and hybrid drives		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		50.0%	100.0%
Recommended reading	Basic literature	Documentation of selected classification societies.	
		Catalogs of yacht systems manufacturers.	
	Supplementary literature	Designs of existing sailing yachts and motorboats	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Discussion of the power systems on the yacht		
	Discussion of freshwater management systems on a yacht		
	Overview of the fuel system on the yacht		
Work placement	Not applicable		

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