



## Subject card

Subject name and code	, PG_00056327						
Field of study	Ocean Engineering						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2024/2025		
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			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Zakład Energetyki i Automatyki Morskiej -> Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Jerzy Kowalski				
	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	15.0	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		5.0		25.0	75
Subject objectives	The aim of the course is to familiarize students with various ship propulsion designs.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W08] has knowledge of the principles of sustainable development	explains the principles of sustainable development			[SW1] Assessment of factual knowledge		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems	The student presents information on the design, construction and operation of ocean engineering facilities and systems			[SW2] Assessment of knowledge contained in presentation		
	[K6_W06] has an organized knowledge on engineering methods and design tools allowing the conducting of projects within the construction and operation of ocean technology objects and systems	The student presents information on engineering methods and design tools that enable the implementation of projects in the field of construction and operation of ocean engineering facilities and systems			[SW2] Assessment of knowledge contained in presentation		
	[K6_U05] can formulate a simple engineering task and its specification within the range of design, construction and operation of ocean technology objects and systems	Student formulates a simple engineering task and its specification in the field of design, manufacture and operation of ocean engineering facilities and systems			[SU1] Assessment of task fulfilment		
Subject contents	1. General conditions for designing the propulsion of a vessel.2. Requirements of Classification Societies regarding the propulsion of vessels.3. Classification and construction of vessels.4. Types of propulsion structure depending on operational requirements and purpose of floating objects.5. Structural elements of watercraft propulsion						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	presentation	100.0%	50.0%
	pass a subject	60.0%	50.0%
Recommended reading	Basic literature	Chybowski - Okrętowe układy napędowe,  Borkowski - Siłownie Okrętowe	
	Supplementary literature	K. Cudny Linie wałów okrętowych	
	eResources addresses	Adresy na platformie eNauczenie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		