



## Subject card

Subject name and code	, PG_00056317						
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	5	ECTS credits			4.0		
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 of lecturer (lecturers)	Subject supervisor	dr inż. Jacek Nakielski					
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	15.0	0.0	15.0	0.0	60
	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	60	10.0	30.0	100		
Subject objectives	Familiarizing students with the basic systems installed on a ship.  Understanding the functions and operating principles of fundamental shipboard devices and systems in accordance with the requirements of classification societies and applicable standards.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[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	The student is able to list, describe the construction, and explain the operating principle of deck equipment.			[SU3] Assessment of ability to use knowledge gained from the subject		
	[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	Knowledge of the functions of basic shipboard devices and systems.			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems	Knowledge of the functions of basic ocean engineering devices and systems.			[SW3] Assessment of knowledge contained in written work and projects		

Subject contents	<p>Lecture:</p> <ul style="list-style-type: none"> <li>• Controllable pitch propellers</li> <li>• Hatch covers</li> <li>• Ramps and doors</li> <li>• Watertight doors</li> <li>• Bow thrusters and azimuth thrusters</li> </ul> <p>Laboratory:;</p> <p>Practical exercises related to the topics covered in the lecture and exercises</p> <p>Exercises:</p> <p>Performing tasks related to the topics discussed in the lecture.</p>														
Prerequisites and co-requisites	<p>Fundamentals of Machine Design.</p> <p>Technology of Machine Parts and Ship Equipment.</p>														
Assessment methods and criteria	<table border="1" data-bbox="451 757 1487 913"> <thead> <tr> <th data-bbox="451 757 798 786">Subject passing criteria</th> <th data-bbox="798 757 1141 786">Passing threshold</th> <th data-bbox="1141 757 1487 786">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 786 798 842">Exercises - completion of a calculation and drawing task</td> <td data-bbox="798 786 1141 842">55.0%</td> <td data-bbox="1141 786 1487 842">30.0%</td> </tr> <tr> <td data-bbox="451 842 798 875">Laboratory - report</td> <td data-bbox="798 842 1141 875">55.0%</td> <td data-bbox="1141 842 1487 875">20.0%</td> </tr> <tr> <td data-bbox="451 875 798 913">Lecture - 2 colloquia</td> <td data-bbox="798 875 1141 913">55.0%</td> <td data-bbox="1141 875 1487 913">50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Exercises - completion of a calculation and drawing task	55.0%	30.0%	Laboratory - report	55.0%	20.0%	Lecture - 2 colloquia	55.0%	50.0%
Subject passing criteria	Passing threshold	Percentage of the final grade													
Exercises - completion of a calculation and drawing task	55.0%	30.0%													
Laboratory - report	55.0%	20.0%													
Lecture - 2 colloquia	55.0%	50.0%													
Recommended reading	Basic literature	-													
	Supplementary literature	-													
	eResources addresses	Adresy na platformie eNauczenie:													
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> <li>1. For each type of vessel, select the appropriate type of hatch cover and describe their operation.</li> <li>2. Present the method of converting reciprocating motion to rotational motion in controllable pitch propellers.</li> <li>3. List the types of doors and discuss how they are opened.</li> <li>4. Perform basic calculations related to determining the diameter of the actuator for a controllable pitch propeller.</li> </ol>														
Work placement	Not applicable														

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