GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00056327		
Field of study	Ocean Engineering		
Date of commencement of studies	October 2021	Academic year of realisation of subject	2023/2024
Education level	first-cycle studies	Subject group	Optional 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	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_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
[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_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_W08] has knowledge of the principles of sustainable development	explains the principles of sustainable development	[SW1] Assessment of factual knowledge

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

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<tr><td>Prerequisites and co-requisites</td><td colspan="3"></td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>pass a subject</td><td>60.0%</td><td>50.0%</td></tr>
<tr><td>presentation</td><td>100.0%</td><td>50.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Chybowski - Okrętowe układy napędowe,

Borkowski - Siłownie Okrętowe</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">K. Cudny Linie wałów okrętowych</td></tr>
<tr><td>eResources addresses</td><td colspan="2">Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3"></td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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