GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00073779		
Field of study	Naval Architecture and Offshore Structures		
Date of commencement of studies	February 2026	Academic year of realisation of subject	2026/2027
Education level	second-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	2	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Marine Structures Mechanics and Technology -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Jakub Kowalski	
	Teachers	dr inż. Jakub Kowalski	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	45.0	15.0	15.0	75

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	75	0.0	0.0	75

Subject objectives

The objective of this course is to design an experiment related to ISB (testing sewn sail seams).

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W04] demonstrates knowledge encompassing selected issues in the field of advanced knowledge, particularly in the scope of methods, techniques, tools, and algorithms specific to Naval Architecture and Ocean Engineering	The student is familiar with methods for testing textile materials and their sewn joints. The student is able to justify the choice of procedure adopted for further research.	[SW2] Assessment of knowledge contained in presentation
[K7_W01] explains and describes, based on general knowledge in the field of scientific disciplines forming the theoretical foundations of Naval Architecture and Ocean Engineering, the construction and principles of operation of marine systems, processes and their components, as well as methods and means of their design and operation	The student identifies the failure mechanisms specific to the joints under consideration. It verifies the test results obtained.	[SW2] Assessment of knowledge contained in presentation
[K7_U01] applies acquired analytical, simulation, and experimental methods, as well as mathematical models for analysis and evaluation of shipborne and offshore systems and processes	Based on information from the literature and preliminary research conducted as part of their engineering thesis, the student is able to design a research plan	[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task

Subject contents

Course content – laboratory

Own reserch

Course content – project

Developing an experimental design that takes into account the scientific principles of experimental design, as well as the knowledge gained during research for the engineering thesis and through literature review.

Course content – seminar

The content of the seminar is determined in consultation with the supervisor

<table>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Laboratory</td><td>100.0%</td><td>50.0%</td></tr>
<tr><td>Project</td><td>100.0%</td><td>30.0%</td></tr>
<tr><td>Seminar</td><td>50.0%</td><td>20.0%</td></tr>
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<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td></tr>
<tr><td>Supplementary literature</td></tr>
<tr><td>eResources addresses</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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