GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Selected issues of technology, PG_00060551		
Field of study	Design and Construction of Yachts, Naval Architecture and Offshore Structures		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2028/2029
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	8.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	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		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	45.0	0.0	15.0	30.0	0.0	90

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	90	9.0	101.0	200

Subject objectives

The purpose of the course is to teach students about the current problems in the construction of metal hulls

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W02] has knowledge in the field of technical mechanics, fluid mechanics, strength of materials, necessary to understand the basic physical phenomena occurring in ocean engineering	The student is able to apply knowledge of basic science to solve a complex problem	[SW2] Assessment of knowledge contained in presentation
[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 consciously plan (individually or in a group) and document the work of the realized task	[SU1] Assessment of task fulfilment
[K6_U04] has skills that allow for self-education and preparation for work in an industrial environment, including the application of occupational health and safety rules	The student is able to independently search and verify knowledge and apply it to the task at hand	[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject

Subject contents

Course content – lecture
Lecture:
The content of the lecture focuses on current industrial problems related to the construction and outfitting of steel hulls. Among other issues, the following will be discussed: joining of dissimilar materials, hull assembly at the launching site, measurements and industrial testing
Laboratory
Participation of students in current research at the Institute in the fields of mechanics, strength, fracture and fatigue of materials or ship technology.

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">Basic knowledge of the following subjects:
- mechanics
- strength of materials
- hull technology</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></td><td>60.0%</td><td>34.0%</td></tr>
<tr><td></td><td>100.0%</td><td>33.0%</td></tr>
<tr><td></td><td>100.0%</td><td>33.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Classification societies' regulations and the standards indicated in the classes

Lamb, Thomas. (2003 - 2004). Ship Design and Construction, Volumes 1-2; Society of Naval Architects and Marine Engineers (SNAME). Book available from the Knovel database (accessed through the PG library website)

Bruce, George J. Eyres, David J.. (2012). Ship Construction (7th Edition).Elsevier. Book available from Knovel database (accessed through PG library website)

I. Lotsberg, Fatigue Design of Marine Structures. Cambridge University Press, 2016. book available from Knovel database (accessed through PG library website).</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">scientific articles indicated by the lecturer
internet sources</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">Purpose and procedure for determining CTOD for welded joints
Procedure for launching from a longitudinal slope</td></tr>
<tr><td>Practical activites within the subject</td><td colspan="3">Not applicable</td></tr>
</table>

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