GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Ship Design I, PG_00060547		
Field of study	Naval Architecture and Offshore Structures		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2026/2027
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	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. Tomasz Hinz	
	Teachers		

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	0.0	45.0	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	6.0	34.0	100

Subject objectives

Use of NAPA software in designing, generation of hull form, pre-determination of displacement of the designed vessel, pre-determination of basic main dimensions and block coefficients of hull shape, determination of the position of main structural elements, creation of main ship compartments, preparation of design documentation: general arrangment plan.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U01] can obtain information from literature, databases and other sources, can verify and organize the obtained information, interpret them and form conclusions and justified opinions	Students can search for and apply the appropriate regulations for a given class of ship.	[SU2] Assessment of ability to analyse information
[K6_K03] is aware of the impact of non-technical aspects on the engineer's work and the impact of engineering activities on the natural environment	Students will be able to analyse non-technical aspects and effects of activities in the engineering profession and their impact on the environment and be aware of responsibility for decisions taken.	[SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice
[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems	The student has a structured knowledge of engineering methods and design tools to perform projects of construction and operation of ocean engineering facilities and systems	[SW3] Assessment of knowledge contained in written work and projects
[K6_U03] can use computer-aided design, production and operation tools for ocean technology objects and systems	The student can carry out basic hydrostatic documentation and a Tank Plan/General Arrangement Plan.	[SU1] Assessment of task fulfilment

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<tr><td>Subject contents</td><td>Generation of Body Lines

Basic hydrostatic documentation

Simple Tank plan/General Arrangement Plan</td></tr>
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and co-requisites</td><td></td></tr>
<tr><td>Assessment methods
and criteria</td><td>
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<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Report</td><td>60.0%</td><td>100.0%</td></tr>
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</td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Watson D.G.M.: Practical ship designPapanikolaou A.: Methodologies of Preliminary Design

Hirdaris, Spyros: Lecture Notes on Basic Naval Architecture

Papanikolaou A.: Methodologies of Preliminary Design</td></tr>
<tr><td>Supplementary literature</td><td>Schneekluth H.: Ship design for efficiency and economy</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/
example questions/
tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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