GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Sailboat Design, PG_00060614		
Field of study	Projektowanie jednostek żaglowych		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2025/2026
Education level	first-cycle studies	Subject group	Obligatory subject group in the field of study 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 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. Artur Karczewski	
	Teachers	dr hab. sztuki Paweł Gełesz	

Lesson types

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

Through the completion of tasks and design exercises, students will become familiar with the issues surrounding the human environment on board a sailing yacht.
In addition, the aim of the course is to familiarise students with participatory methods of implementing the design process, i.e. taking into account the subjective needs of users in shaping the architecture of a floating object (sailing yacht).

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W05] has well-organised knowledge in the field of design, construction, and operation of yachts	Can design a layout for a limited space, taking into account functional processes in line with the intended use.	[SW2] Ocena wiedzy zawartej w prezentacji [SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym
[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	Able to take into account the influence of users (their subjective role) in the yacht architecture design process	[SK4] Ocena umiejętności komunikacji, w tym poprawności językowej [SK5] Ocena umiejętności rozwiązywania problemów występujących w praktyce [SK1] Ocena umiejętności pracy w grupie
[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	Can gather information, classify it and evaluate it in accordance with the project objectives.	[SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu

<table>
<tr><td>Subject contents</td><td>Course content – lecture
Program realizowany jest poprzez ćwiczenia polegające na realizowaniu zadań projektowych przy stałym (cykliczny zgodnie z planem zajęć) kontaktem z prowadzącymi oraz grupą studencką.

Niewielki jach lub łódź motorowa jako pretekst do studium prostej ograniczonej przestrzeni wielofunkcyjnej; analiza procesów użytkowych, ciągów komunikacyjnych, bezpieczeństwa z wykorzystaniem elementów ograniczeń i wymogów prawnych; makieta przestrzena w skali 1:1, zaawansowany model wirtualny, rysunek techniczny, prezentacja słowno-obrazkowa, opis

Course content – project
The programme is implemented through exercises consisting of project tasks with constant (cyclical, according to the schedule) contact with the lecturers and the student group.

A small yacht or motorboat as a pretext for studying a simple, limited multifunctional space; analysis of functional processes, communication routes, safety with the use of legal restrictions and requirements; 1:1 scale spatial model, advanced virtual model, technical drawing, verbal and visual presentation, description.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Basic knowledge of yacht architecture design software.
Proficiency in engineering graphics (both hand sketching and presentations).
Awareness of the conditions for carrying out design work, taking into account objective limitations.
High level of communication skills, both spoken and written.</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>project</td><td>55.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>Ferrari P. Planning Inclusive Yachts - A Novel Approach To Yacht Design, Springer 2020</td></tr><tr><td>Supplementary literature</td><td>Tokarski T. Atlas miar człowieka, Dane do projektowania i oceny ergonomicznej, Centralny Instytut Ochrony Pracy Państwowy Instytut Badawczy Warszawa, 2023</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>A yacht for... A study of living spaces on a small sailing vessel, with particular emphasis on functional processes not performed during sailing.</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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