

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	Yacht architecture & design, PG_00065497								
Field of study	Naval Architecture and Offshore Structures								
Date of commencement of studies	February 2026		Academic year of realisation of subject			2025/2026			
Education level	second-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	Part-time studies		Mode of delivery		at the university				
Year of study	1		Language of instruction		Polish				
Semester of study	1		ECTS credits		3.0				
Learning profile	general academic profile		Assessment form		assessment				
Conducting unit	Zakład Projektowania Okrętu - Brak (istniała Wcześniej) -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor		dr hab. szt. Paweł Gełesz						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	18.0	0.0	0.0	0.0		0.0	18	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes incluc plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	18		7.0		50.0		75	
Subject objectives	The programme's thematic area (with research elements) includes all design activities falling within the scope of broadly understood yacht architecture (sailing and motor yachts), aggregating interdisciplinary knowledge from the technical area with elements of ergonomics basics. A fundamental form of student activity is exploration. The programme envisages the use of: experiments (e.g. on a scale of 1:1), the method of successive approximations (the so-called design spiral), research work (research through design), synthesising results (e.g. as part of team work) and a final author's design proposal that also takes into account legal requirements and limitations. An important feature of the programme is the systematic development of students' competences at the creative and decision-making level. Course objectives: - development of competence for the creation of new concepts in the area of yacht architecture oriented primarily on the needs of users, - development of a responsible attitude as creator and coordinator of innovations in the field of yacht architecture - development of skills and creative attitudes in the field of yacht architecture in its broadest sense								

Learning outcomes	Course outcome	Subject outcome	Method of verification			
	[K7_W12] identifies and interprets the main developmental trends and significant new achievements in the field of engineering and technical sciences and disciplines relevant to the course of study	The student is able to create, present and argue a solution to usability problems in the area of yacht spaces.	[SW2] Assessment of knowledge contained in presentation			
	[K7_W03] demonstrates structured and theory supported knowledge encompassing key issues in the field of Naval Architecture and Ocean Engineering, enabling developement and synthesis of shipborne and offshore systems, devices, and processes	The student has a structured knowledge of the fundamentals of industrial design in the ergonomics of living spaces.	[SW2] Assessment of knowledge contained in presentation			
	[K7_K82] is equipped to participate actively in lectures, seminars and laboratory classes conducted in foreign language	Students are ready to participate in discussions, to exchange opinions, to argue and to present the results of their work in a foreign language.	[SK4] Assessment of communication skills, including language correctness			
	[K7_U03] identifies and formulates task specifications in the scope of shipborne and offshore systems/ processes design, including non- standard problems also accounting for their non-technical aspects	The student is able to solve a design problem concerning the organisation of living space for a specific user group.	[SU1] Assessment of task fulfilment			
Subject contents	ergonomics of space, programme and utility processes, optimisation of living spaces. Entry requirements: - knowledge of design methods (including teamwork), - ability to work manually using a wide range of methods and tools (including working in CAD and mock-ups), - competences connected with analytical skills and communicating the results of one's work using various information techniques. - the ability to critically appraise their knowledge and skills and recognise the importance of knowledge in solving advanced cognitive and practical problems, including seeking expert advice - ability to independently integrate acquired and continuously developing competences and experience in order to consciously develop a creative attitude - fluency in spoken and written english Additional requirements - skills to formulate and solve complex issues, - reflection on the ethical, social and scientific aspects of the design profession					
Prerequisites and co-requisites						
			ession			
Assessment methods			ession Percentage of the final grade			
Assessment methods and criteria	- reflection on the ethical, social and	scientific aspects of the design profe				
	- reflection on the ethical, social and Subject passing criteria	scientific aspects of the design profe Passing threshold	Percentage of the final grade			
	- reflection on the ethical, social and Subject passing criteria presentation of work results	scientific aspects of the design profe Passing threshold 30.0%	Percentage of the final grade 25.0%			
	reflection on the ethical, social and Subject passing criteria presentation of work results semester project	scientific aspects of the design profe Passing threshold 30.0% 50.0%	Percentage of the final grade 25.0% 70.0% 5.0			
and criteria	- reflection on the ethical, social and Subject passing criteria presentation of work results semester project attendance control	scientific aspects of the design profe Passing threshold 30.0% 50.0% 50.0% L. Larsson, R. E. Eliason, <i>Principles</i> Nauticals, 2022, ISBN 978-14-7298 A. Lerch. <i>Architektura statków i okr</i> e ISBN 978-83-929697-7-8 (english s <i>Design methodology for small pass</i> <i>ferryboat Motlawa 2 driven by hybrid</i>	Percentage of the final grade 25.0% 70.0% 5.0			
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and criteria Recommended reading	reflection on the ethical, social and Subject passing criteria presentation of work results semester project attendance control Basic literature Supplementary literature eResources addresses	scientific aspects of the design profe Passing threshold 30.0% 50.0% 50.0% L. Larsson, R. E. Eliason, <i>Principles</i> Nauticals, 2022, ISBN 978-14-7298 A. Lerch. <i>Architektura statków i okr</i> ę ISBN 978-83-929697-7-8 (english s <i>Design methodology for small passiferryboat Motlawa 2 driven by hybri</i> t Maritime Reserch, Special Issue 20 ATLAS MIAR CZŁOWIEKA, Dane c ergonomicznej, Centralny Instytut C Państwowy Instytut Badawczy Wars R.A.Flinchum, <i>Dreyfuss, Design, ar</i> Design The Quarterly of Human Fau 10.1177/106480460000800104	Percentage of the final grade     25.0%     70.0%     5.0%     6.0     6.0     6.0     7.1     7.1     7.1     7.1     7.1     7.1     7.1     7.1     7.1     7.1     7.1     7.1     7.1 <			
and criteria	reflection on the ethical, social and Subject passing criteria presentation of work results semester project attendance control Basic literature Supplementary literature eResources addresses Design a space concept for a habita Design a concept for the utilisation of	scientific aspects of the design profe Passing threshold 30.0% 50.0% 50.0% L. Larsson, R. E. Eliason, <i>Principles</i> Nauticals, 2022, ISBN 978-14-7298 A. Lerch. <i>Architektura statków i okr</i> ISBN 978-83-929697-7-8 (english s <i>Design methodology for small pass</i> <i>ferryboat Motlawa 2 driven by hybri</i> Maritime Reserch, Special Issue 20 ATLAS MIAR CZŁOWIEKA, Dane of ergonomicznej, Centralny Instytut O Państwowy Instytut Badawczy Wars R.A.Flinchum, <i>Dreyfuss, Design, an</i> Design The Quarterly of Human Fat 10.1177/106480460000800104	Percentage of the final grade 25.0% 70.0% 5.0			

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