

## Subject card

Subject name and code	Yacht architecture & design, PG_00064885								
Field of study	Naval Architecture an	d Offshore Str	uctures						
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			
Mada of study	Full-time studies		Maria of dallors			research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study			Language of instruction			English 3.0			
Semester of study	1		ECTS credits						
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	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	30.0	0.0	0.0	0.0		0.0	30	
	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	30		8.0		37.0		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								

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Learning outcomes	Course outcome	Subject outcome	Method of verification	
	[K7_W12] identifies and interprets	The student is able to create,	[SW2] Assessment of knowledge	
	the main developmental trends and significant new achievements in the field of engineering and technical sciences and disciplines relevant to the course of study	present and argue a solution to usability problems in the area of yacht spaces.	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 ar	nd utility processes, optimisation of li	ving spaces.	
Prerequisites and co-requisites	<ul> <li>competences connected with analy information techniques.</li> <li>the ability to critically appraise their solving advanced cognitive and practice.</li> </ul>	de range of methods and tools (incluing the restrict skills and communicating the restrict skills and recognised tical problems, including seeking exceptived and continuously developing tive attitude	e the importance of knowledge in pert advice	
	Additional requirements - skills to formulate and solve compl - reflection on the ethical, social and	ex issues, scientific aspects of the design profe	ession	
Assessment methods	- skills to formulate and solve compl		ession  Percentage of the final grade	
Assessment methods and criteria	- skills to formulate and solve compl - reflection on the ethical, social and	scientific aspects of the design profe		
	- skills to formulate and solve compl - reflection on the ethical, social and Subject passing criteria	scientific aspects of the design profe Passing threshold	Percentage of the final grade	
	- skills to formulate and solve compli- reflection on the ethical, social and Subject passing criteria presentation of work results	cientific aspects of the design professing threshold 30.0%	Percentage of the final grade 25.0%	
	- skills to formulate and solve compli- reflection on the ethical, social and Subject passing criteria presentation of work results semester project	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	Percentage of the final grade  25.0%  70.0%  5.0%  s of yacht design, Aldlard Coles 319-2-9  etów. Projektowanie i konstrukcja, summary)	
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and criteria	- skills to formulate and solve complanelle reflection on the ethical, social and Subject passing criteria presentation of work results semester project attendance control  Basic literature  Supplementary literature  eResources addresses	Passing threshold  30.0%  50.0%  50.0%  L. Larsson, R. E. Eliason, Principles Nauticals, 2022, ISBN 978-14-7298  A. Lerch. Architektura statków i okra ISBN 978-83-929697-7-8 (english startyboat Motlawa 2 driven by hybri Maritime Reserch, Special Issue 20  ATLAS MIAR CZŁOWIEKA, Dane of ergonomicznej, Centralny Instytut C Państwowy Instytut Badawczy Warstellen (Państwowy Instytut Badawczy Warstellen)  R.A.Flinchum, Dreyfuss, Design, ar Design The Quarterly of Human Fa 10.1177/106480460000800104	Percentage of the final grade  25.0%  70.0%  5.0%  s of yacht design, Aldlard Coles 319-2-9  etów. Projektowanie i konstrukcja, summary)  senger ship on the example of the fid propulsion system, Polish 317 S1 (93), Vol. 2.  do projektowania i oceny Ochrony Pracy szawa 2023 (polish only)  and Human Factors, in Ergonomics in ctors Applications 8(1):18-24, DOI:	
and criteria	- skills to formulate and solve complared 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	Passing threshold  30.0%  50.0%  50.0%  L. Larsson, R. E. Eliason, Principles Nauticals, 2022, ISBN 978-14-7298  A. Lerch. Architektura statków i okra ISBN 978-83-929697-7-8 (english statków formall pass ferryboat Motlawa 2 driven by hybri Maritime Reserch, Special Issue 20  ATLAS MIAR CZŁOWIEKA, Dane of ergonomicznej, Centralny Instytut C Państwowy Instytut Badawczy Warst Design The Quarterly of Human Fa 10.1177/106480460000800104  ble cabin with an atypical functional of a given space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of onal use of the yacht space for the realisation of t	Percentage of the final grade  25.0%  70.0%  5.0%  s of yacht design, Aldlard Coles 319-2-9  etów. Projektowanie i konstrukcja, summary)  senger ship on the example of the fid propulsion system, Polish 317 S1 (93), Vol. 2.  do projektowania i oceny Ochrony Pracy szawa 2023 (polish only)  and Human Factors, in Ergonomics in ctors Applications 8(1):18-24, DOI:	

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