

## 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 2025		Academic year of realisation of subject			2024/2025			
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 Ship Technology	kład Projektowania Okrętu -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and ip Technology						eering and	
Name and surname	Subject supervisor	bject supervisor dr hab. sztuki F		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	18.0	0.0	0.0	0.0		0.0	18	
	E-learning hours included: 0.0								
	A lecture involving students in design activities requiring creativity stimulated by the content discussed.  The completion of a major cognitive or practical task by a group of students or individually.  The course leader inspires the group to create together and controls the course.  Project work is multi-stage and characterized by a longer implementation time (semester).  It includes the independent acquisition, collection of information, its processing, elaboration and presentation of the results to others.								
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation consultation h		Self-stu	udy	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								

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Learning outcomes	Course outcome	Subject outcome	Method of verification			
	[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			
	[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_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_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			
Subject contents	ergonomics of space, programme and utility processes, optimisation of living spaces.					
Prerequisites and co-requisites	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					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	attendance control	50.0%	5.0%			
	semester project	50.0%	70.0%			
	presentation of work results	30.0%	25.0%			
Recommended reading	Basic literature	L. Larsson, R. E. Eliason, <i>Principles of yacht design</i> , Aldla Nauticals, 2022, ISBN 978-14-729819-2-9  A. Lerch. <i>Architektura statków i okrętów. Projektowanie i</i> ISBN 978-83-929697-7-8 (english summary)  Design methodology for small passenger ship on the exa				
		ferryboat Motlawa 2 driven by hybrid propulsion system, Polish Maritime Reserch, Special Issue 2017 S1 (93), Vol. 2.				
	Supplementary literature	ATLAS MIAR CZŁOWIEKA, Dane do projektowania i oceny ergonomicznej, Centralny Instytut Ochrony Pracy Państwowy Instytut Badawczy Warszawa 2023 (polish only)				
		R.A.Flinchum, <i>Dreyfuss, Design, and Human Factors</i> , in Ergonomics in Design The Quarterly of Human Factors Applications 8(1):18-24, DOI: 10.1177/106480460000800104				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed  Work placement	Design a space concept for a habita Design a concept for the utilisation of	ble cabin with an atypical functional I of a given space for the realisation of onal use of the yacht space for the re	a specific functional programme.			

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