



Subject card

Subject name and code	Manufacturing of Metal Hull, PG_00061842						
Field of study	Design and Construction of Yachts						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		8.0		
Learning profile	general academic profile		Assessment form		exam		
Conducting unit	Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Karol Niklas				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	45.0	0.0	15.0	30.0	0.0	90
	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	90		0.0		0.0	90
Subject objectives	Gain knowledge of selected issues in the design and manufacture of waterborne means of transport. In particular issues in the area of metal yacht manufacturing technology.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U04] has skills that allow for self-education and preparation for work in an industrial environment, including the application of occupational health and safety rules		Ability to solve selected engineering problems related to the construction of yachts.		[SU4] Assessment of ability to use methods and tools		
	[K6_W02] has knowledge in the field of technical mechanics, fluid mechanics, strength of materials, necessary to understand the basic physical phenomena occurring in ocean engineering		Analysis and solution of technical problems related to yacht design and construction.		[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects		
	[K6_U02] can work individually and in a team, communicate through various techniques in professional environment and also record, analyse, and present the results of work, can estimate the time needed to complete a given task		Ability to work individually and in teams to achieve the desired design goal related to yacht structure design.		[SU1] Assessment of task fulfilment		
Subject contents	Selected issues related to the design of yacht structures concerning materials, technological processes, manufacturing technology. Spatial division of structures. Technologies of joining, transportation, launching. Aspects of equipment, maintenance, modernization, recycling.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	project		50.0%		50.0%		
	colloquium		50.0%		50.0%		

Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Bruce, George J.; Eyres, David J., Ship Construction (7th Edition), ISBN: 978-0-08-097239-8, Elsevier 2012 2. Mathers G., The welding of aluminium and its alloys. ISBN-10: 1855735679 ISBN-13: 9781855735675 3. Norrish J., Norrish J. , Advanced Welding Processes (New Manufacturing Processes & Materials), ISBN-10: 0852743254, ISBN-13: 978-0852743256, Springer; 1993 4. Publikacje Towarzystw Klasyfikacyjnych.
	Supplementary literature	<ol style="list-style-type: none"> 1. Bruce, George J.; Eyres, David J., Ship Construction (7th Edition), ISBN: 978-0-08-097239-8, Elsevier 2012 2. Mathers G., The welding of aluminium and its alloys. ISBN-10: 1855735679 ISBN-13: 9781855735675 3. Norrish J., Norrish J. , Advanced Welding Processes (New Manufacturing Processes & Materials), ISBN-10: 0852743254, ISBN-13: 978-0852743256, Springer; 1993 4. Publikacje Towarzystw Klasyfikacyjnych.
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>1. Materials used in the construction of metal hulls.2. Production technology of metal hull of a yacht.3. Design of metal yacht structure.4. Selected technological aspects related to the construction, repair, modernization of metal yacht hulls.5. Modern computer software supporting the process of yacht structure design.</p>	
Work placement	Not applicable	

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