



Subject card

Subject name and code	Computer Aided Design of the Hull, PG_00060542						
Field of study	Design and Construction of Yachts, Naval Architecture and Offshore Structures						
Date of commencement of studies	October 2026	Academic year of realisation of subject				2027/2028	
Education level	first-cycle studies	Subject group				Optional subject group 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	2	Language of instruction				Polish	
Semester of study	4	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. Cezary Żrodowski					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	30.0	0.0	45
	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	45		5.0		50.0	100
Subject objectives	Getting to know the characteristics of the available CAD/CAM/CAE computer-aided design software for the maritime industry and mastering the skills of its use on selected examples of hull design.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[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	The student is able to use functionalities of CAD tools, supporting sustainable design			[SK2] Assessment of progress of work		
	[K6_W04] has knowledge in the field of computer science, electronics, electrical engineering, automation and control, information technology, computer graphics, useful for understanding the possibilities of their use in ocean engineering	141 / 5,000 Translation results Translation result The student correctly selects CAD tools for various design problems, taking into account the advantages and disadvantages of mesh and parametric geometry.			[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	The student demonstrates knowledge of individual and team work techniques built into modern CAD software			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		

Example issues/ example questions/ tasks being completed	1. Parametric model of hull form. 2. Associative model of hull assembly. 3. CFD simulation of propeller. 4. FEA simulation of simple structure.
Practical activities within the subject	Not applicable

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