

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Designing of High-Speed Units 2, PG_00056265								
Field of study	Design and Construction of Yachts								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025			
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			3.0			
Learning profile	practical profile		Assessment form			assessment			
Conducting unit	Institute Of Naval Architecture -> Faculty Of Mechanical Engineering And Ship Technology -> Wydziały Politechniki Gdańskiej								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Michał Krężelewski						
	Teachers		dr inż. Michał Krężelewski						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory Project		t	Seminar	SUM	
of instruction	Number of study hours	15.0	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 classes includ	n didactic ed in study	Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		5.0		25.0		75	
Subject objectives	The purpose of the course is tofamiliarize students with the problems of designing motor yachts and other high-speed craft and to perform their preliminary design.								
Learning outcomes	Course outcome Subject outcome Method of verification						fication		
	K6_U03		The student is able to use methods of computer aided design, production and operation of yachts			[SU1] Assessment of task fulfilment			
	K6_W05		The student has structured knowledge in the field of design, construction and operation of yachts			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
	K6_U05		The student is able to formulate a simple engineering task and its specificity in the field of designing, manufacturing and operating yachts			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment			
	K6_W06		The student has structured knowledge of engineering methods and design tools enabling the implementation of projects in the field of construction and operation of yachts			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Lecture: Familiarizing students with the types of high-speed craft. Specifics of the design of planing craft, hydrofoils, hovercraft and high-speed catamarans. Regulations for high-speed craft. Project: Continuation of the project from the course Design of high-speed craft I. Execution of conceptual design of two selected high-speed craft.								

Prerequisites and co-requisites					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade		
	Project	100.0%	50.0%		
	Lecture	60.0%	50.0%		
Recommended reading	Basic literature L. Larsson, R. E. Eliasson, M. Orych: Podstawy projektowania jachtówW. L. Suska, Motorówki i małe kutry motoroweJ.Michalski, Podstawy projektowania okrętów				
	Supplementary literature	ature Faltinsen O.M. Hydrodynamics of high speed marine vehicles, Cambridge University Press, 2005 Przepisy Klasyfikacji i Budowy Jachtów Morskich, Części I VII, PRS Przepisy Klasyfikacji i Budowy łodzi motorowych, Części I-VI, PRS			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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