



Subject card

Subject name and code	, PG_00055302						
Field of study	Ocean Engineering						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2022/2023		
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			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Paweł Dymarski				
	Teachers		dr inż. Maciej Reichel				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0	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		5.0		40.0	75
Subject objectives	The aim of the project is to prepare Bonjean scale, hydrostatic curves and cross curves of stability for chosen ship.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W06] has an organized knowledge on engineering methods and design tools allowing the conducting of projects within the construction and operation of ocean technology objects and systems		Student knows the aim of using the Bonjean scale, hydrostatic curves and cross curves of stability.		[SW3] Assessment of knowledge contained in written work and projects		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		Student is able to prepare a technical report, which complies with formal and factual requirements.		[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U06] in compliance with a formulated specification and with the aid of appropriate tools and methods, is able to complete a simple engineering task within the range of design, construction and operation of ocean technology objects and systems		Student is able to prepare Bonjean scale, hydrostatic curves and cross curves of stability by her/him self.		[SU4] Assessment of ability to use methods and tools		
	[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		Student is able to prepare a schedule with time plan for particular tasks and deadlines.		[SU1] Assessment of task fulfilment		

Subject contents	<p>To create graphic form of Bonjean scale.</p> <p>To create graphic form of hydrostatic curves.</p> <p>To create graphic form of cross curves of stability.</p>		
Prerequisites and co-requisites	Having the lines plan of previously designed ship.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	technical report with the formal content	100.0%	100.0%
Recommended reading	Basic literature	Jan Dudziak " Teoria Okrętu" Oficyna Morska, Gdańsk 1988	
	Supplementary literature	Levis E. V., Principles of Naval Architecture, Vol. 1: Stability and Strength, SNAME 1988	
	eResources addresses	Adresy na platformie eNauczenie: Praca Projektowa I (sem. letni 22/23) - Moodle ID: 31141 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=31141	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		