

SDAŃSK UNIVERSITY 的 OF TECHNOLOGY

Subject card

Subject name and code	, PG_00056301							
Field of study	Ocean Engineering							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024		
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	3		Language of instruction			Polish		
Semester of study	6		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 inż. Michał Krężelewski						
	Teachers		dr inż. Michał Krężelewski					
	mgr inż. Hanna Pruszko							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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 ir classes includ				Self-study SUM		SUM	
	Number of study hours	30		5.0		40.0		75
Subject objectives	The student recognizes manoeuvring abilities of modern ships. Knows ship steering devices. Sizing andcalculates ship propeller and rudder.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[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		Designs the propeller and rudder			[SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		Designs the propeller and rudder			[SW3] Assessment of knowledge contained in written work and projects		
	[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		Designs the propeller and rudder			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_K03] understands non- technical aspects and effects of operation as an engineer, its influence on the environment and is aware of the responsibilities for the decisions taken		Designs the propeller and rudder			[SK5] Assessment of ability to solve problems that arise in practice		

Subject contents Prerequisites	Hydrodynamic characteristics of a ship propeller. The maneuvering abilities of the ship. Modern steeringdevices. Selection and calculation of serial propellers and classic rudders.						
and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	project	100.0%	100.0%				
Recommended reading	Basic literature	Dudziak Jan Teoria okrętu, Gdańsk 2008Wełnicki Wiesław Mechanika ruchu okrętu, skrypt PG, Gdańsk 1989Wełnicki Wiesław Sterowność okrętu, PWN Warszawa 1966Molland Anthony The Marine Engeeniring Refarence Book - a Guide to Ship design, construction and operation, Essevier 2008Molland Anthony, Turnock Stephen Marine Rudders and Control Sufraces, Elsevier 2007					
	Supplementary literature	Krężelewski Mieczysław Hydromechanika ogólna i okrętowa cz.II skrypt PG Gdańsk 1982					
		Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						