

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. Hanr	na Pruszko					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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 classes include plan				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 and calculates 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			

Data wydruku: 03.05.2024 00:26 Strona 1 z 2

Subject contents	Hydrodynamic characteristics of a ship propeller. The maneuvering abilities of the ship. Modern steeringdevices. Selection and calculation of serial propellers and classic rudders.						
Prerequisites and co-requisites	Ship Motion Mechanics I						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	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					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

Data wydruku: 03.05.2024 00:26 Strona 2 z 2