

Subject card

Subject name and code	Ship Operability, PG_00045118								
Field of study	Ocean Engineering, Ocean Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
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			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Faculty of Ocean Eng	Faculty of Ocean Engineering and Ship Technology							
Name and surname	Subject supervisor		dr inż. Mohammad Ghaemi						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	45.0	0.0	0.0	0.0		15.0	60	
	E-learning hours inclu	ıded: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	60		10.0		30.0		100	
Subject objectives	The aim of the course is to familiarize students with the concept of ship operability by combining ship menoeuvrability and sea-keeping analysis in the context of ship safety as an overall system, reliable and, if possible, optimal operation of all ship subsystems, taking into account interactions between these subsystems, as well as interactions between the ship and its subsystems with the ship's environment, and also the safety and comfort of the crew and passengers, and the cargo safety.								
Learning outcomes	Course out	come	Subj	ect outcome			Method of verif	fication	
	[K6_W06] has an org knowledge on engine methods and design the conducting of pro the construction and ocean technology ob- systems	The student has a structured knowledge of the engineering methods needed for the general analysis of the maneuvering and sea-keeping characteristics of a ship as an integrated system containing interacted subsystems.			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation				
	[K6_U05] can formul engineering task and specification within the design, construction of ocean technology systems	l its ne range of and operation	the ship operability indexes.			[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools			
	[K6_W05] has an org knowledge on design and operation of oce objects and systems	n, construction an technology				[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation			
Subject contents	1. Basic concepts: system, subsystem, integrated system, subsystem interactions, ship operability 2. Modeling of the ship's motion and its subsystems 3. Review of the maneuvering characteristics of the ship and the applied criteria in this regard 4. Review of the ship's sea-keeping criteria and analysis of environmental impacts 5. Ship's operability criteria and indexes 6. Analysis of the ship's operability and its tools								

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Prerequisites and co-requisites	- Marine hydromechanics					
	- Systems theory (basic level)					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Colloquium	50.0%	75.0%			
	Presentation	50.0%	25.0%			
Recommended reading	Basic literature	Weather, Revised ed. Gosport, End Lewandowski, Edward M (2004). T	Lloyd, A.R.J.M. (1998). Seakeeping: Ship Behaviour in Rough Weather, Revised ed. Gosport, England: A.R.J.M. Lloyd publisher. Lewandowski, Edward M (2004). The Dynamics of Marine Craft: Maneuvering and Seakeeping. New Jersey: World Scientific.			
	Supplementary literature	Mohammad Hossein, Olszewski, Henryk. (2017). TOTAL SHIP OPERABILITY REVIEW, CONCEPT AND CRITERIA. Polish Maritime Research, 24(SI (93)), 74-81. https://doi.org/10.1515/pomr-2017-0014.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	They will be available on the GUT e-Learning platform (e-Nauczania) on a page devoted to this this course.					
Work placement	Not applicable	Not applicable				

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