

Subject card

Subject name and code	Navigation Devices, PG_00046537								
Field of study	Ocean Engineering, Ocean Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group						
Mode of study	Part-time studies		Mode of delivery			at the university			
Year of study	4		Language of instruction			Polish			
Semester of study	7		ECTS credits			2.0			
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	Subject supervisor		dr inż. Jacek Nakielski						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ject Seminar		SUM	
	Number of study hours	20.0	0.0	0.0	0.0	0.0 20		20	
	E-learning hours inclu	ided: 0.0		<u> </u>					
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation i consultation h		Self-study		SUM	
	Number of study hours	20		3.0				50	
Subject objectives	The aim of the course is to familiarize students with the basics of navigation using various types of navigation devices that are part of the equipment of a watercraft.								
Learning outcomes	Course out	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					[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems					[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
	[K6_U05] can formulate a simple engineering task and its specification within the range of design, construction and operation of ocean technology objects and systems					[SU1] Assessment of task fulfilment			
	[K6_W08] has knowledge of the principles of sustainable development					[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
Subject contents	1. Historical outline from antiquity to the present day. 2. Basic concepts related to navigation. 3. Sea charts, locations, lists of lights and radio signals. 4. Marking of the watercraft. 5. Devices and navigational aids: magnetic compasses, optical finders, logs, probes, timers, sextants, navigational aids. 6. Elements of terrestrial navigation. 7. Elements of astronavigation. 8. Elements of radio navigation. 9. Elements of inertial navigation. 10. Elements of electronic navigation. 11. Modern navigation equipment based on an exemplary watercraft.								
Prerequisites and co-requisites	Podstawowa znajomość związane z nautyką i budową jednostek pływających.								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
			50.0%			100.0%			

Data wydruku: 17.04.2024 05:38 Strona 1 z 2

Recommended reading	Basic literature	Gorazdowski Stefan, Morskie pomoce nawigacyjne, Wyd. Morskie, Gdynia 1968					
		Wróbel Franciszek, Vademecum nawigatora, Wyd. Morskie, Gdańsk 1978					
		Gawłowicz Józef, Nawigacja wczoraj i dziś: leksykon, Wyd. Pegaz, Warszawa 1994					
		Urbańczyk Andrzej, Nawigacja prosta, łatwa, zabawna, Oficyna Wydawnicza Alma-Press, Warszawa 2017					
		Piątek Zbigniew, Nawigacja morska w pytaniach i odpowiedziach, Oficyna Wydawnicza Alma-Press, Warszawa 2011					
	Supplementary literature						
		Czajewski Jacek, Nawigacja żeglarska, Wyd. Komunikacji i Łączności, Warszawa 1985					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

Data wydruku: 17.04.2024 05:38 Strona 2 z 2