

Subject card

Cubic at manage and and	Fundamentals of shins' drives and devices PC 00043604									
Subject name and code	Fundamentals of ships` drives and devices , PG_00043694									
Field of study	Ocean Engineering, Ocean Engineering									
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021				
Education level	first-cycle studies		Subject group							
Mode of study	Full-time studies		Mode of delivery			at the university				
Year of study	1		Language of instruction			Polish				
Semester of study	2		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. Piotr Bzura							
of lecturer (lecturers)	Teachers		dr inż. Piotr Bzura							
	dr inż. Daniel Piątek									
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM		
	Number of study hours	30.0	0.0	0.0	0.0		0.0	30		
	E-learning hours included: 0.0									
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/my/ Adresy na platformie eNauczanie:									
	Podstawy napędów i urządzeń okrętowych (O:097281) - Moodle ID: 13368 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13368									
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	Additional information: Classes conducted remotely and conducted on the MS Teams platform									
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	2.0			18.0		50		
Subject objectives	To acquaint students with the basic information on marine propulsion systems and marine devices									
Learning outcomes	Course out	Subject outcome			Method of verification					
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		He combines the knowledge of mechanics and physics to identify energy processes carried out in machines and devices of the ship's power plant.			[SW2] Assessment of knowledge contained in presentation				
	[K6_U04] has self-education skills in order to improve professional qualifications, is ready to work in industrial environment, adheres to HSE rules and regulations		Explains the functioning of the basic elements of propulsion systems and marine devices			[SU4] Assessment of ability to use methods and tools				
Subject contents	Types of marine propulsion, their classification. Diesel engine solutions - direct, indirect drive. Main drive system components (gears, couplings, bearings, seals). Fundamentals of engine-propeller-hull cooperation. Ship equipment.									
Prerequisites and co-requisites										
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade				
	test		50.0%				50.0%			
	test		50.0%			50.0%				

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Recommended reading	Basic literature	Balcerski A.: Siłownie okrętowe. Skrypt Politechniki Gdańskiej 1990. Górski Z., Perepeczko A.: Okrętowe maszyny i urządzenia pomocnicze. Wyd. TRADEMAR 1998. Wojnowski W.: Siłownie okrętowe. Cz I, II i III. AMW Gdynia 1999.
	Supplementary literature eResources addresses	Dr C.B. Barrass: Ship Design and Performance for Masters and Mates Podstawy napędów i urządzeń okrętowych (O:097281) - Moodle ID: 13368
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13368 Podstawy napędów i urządzeń okrętowych (O:097281) - Moodle ID: 13368 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13368
Example issues/ example questions/ tasks being completed		<u>, </u>
Work placement	Not applicable	

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