

## Subject card

Subject name and code	, PG 00056305								
Field of study	Ocean Engineering								
Date of commencement of	October 2021	Academic year of			2022/2023				
studies	00.0001 2021		realisation of subject			2022/2023			
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	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			4.0			
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 hab. inż. Damian Bocheński						
	Teachers		dr hab. inż. Damian Bocheński						
			mgr inż. Dominik Kreft						
			dr inż. Patrycja Puzdrowska						
			ar mz. r atryoja r uzurowska						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	15.0	15.0	0.0		0.0	45	
	E-learning hours included: 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	45		6.0		49.0		100	
Subject objectives	Acquainting students with thermodynamic issues in a ship power plant (fuel combustion, heat transfer, wet gases)								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
			the student has a basic knowledge of the design of selected systems of a ship power plants			[SW1] Assessment of factual knowledge			
	design, production and operation		the student learned the basic methods used in design for tje selection of the type of fuel on board			[SU1] Assessment of task fulfilment			
	11. — 3		the student knows the issues of fuel combustio, heat transfer, humid gases			[SW1] Assessment of factual knowledge			
	[K6_W08] has knowledge of the principles of sustainable development		the student knows the reasons for the currentlly occuring changes in the use of fuels on ships			[SW1] Assessment of factual knowledge			
Subject contents	Theoretical cycles of internal combustion engines, fuel combustion processes, selection of the type of fuel, heat transfer (heat transfer, conduction and convection), selection of heat exchangers, moist gases (air, exhaust fuels).								
Prerequisites and co-requisites	Knowledge from the s	subject of Theri	modynamics						

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	completion of laboratory exercises	100.0%	25.0%			
	colloquium on exercises	60.0%	25.0%			
	colloquium lecture	60.0%	50.0%			
Recommended reading	Basic literature	Pudlik W .: Thermodynamics PG script (in Polish)  Pudlik W .: Heat transfer PG script (in Polish)				
	Supplementary literature	Internet				
	eResources addresses	Adresy na platformie eNauczanie:				
		Termodynamiczne podstawy siłowni okrętowej - Moodle ID: 25713 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=25713				
		Termodynamiczne podstawy siłowni okrętowej - Moodle ID: 25713 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=25713				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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