

## Subject card

Subject name and code	, PG_00057310								
Field of study	Ocean Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
Mode of study	Part-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Ocean En Technology	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology						nd Ship	
Name and surname	Subject supervisor		dr inż. Daniel Piątek						
of lecturer (lecturers)	Teachers	1			1		1		
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	et	Seminar	SUM	
of instruction	Number of study hours	9.0	0.0	0.0	18.0		0.0	27	
	E-learning hours inclu	uded: 0.0	•		•		•		
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	27		10.0		38.0		75	
	know the specifics of hydrostatic systems in ocean engineering; knowledge of the workings of hydraulic components; ability to design hydraulic systems structures; the ability to calculate and matching system components;								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[K7_U07] in compliance with a formulated specification and with the aid of appropriate tools and methods, is able to complete an advanced engineering task within the range of design, construction and operation of ocean technology objects and systems		student is able to optimize the operation of the hydrostatic system in terms of the selected criterion: energy efficiency, construction and operation costs, etc.			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject			
	[K7_W06] has an organized, widened knowledge on engineering methods and design tools allowing the conducting of advanced projects within the construction and operation of ocean technology objects and systems		student using computer tools can design a complete hydraulic system for an ocean engineering object			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
	[K7_W05] has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems		student is able to design a hydrostatic drive system and select its components			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Calculation of the components of the hydraulic system installation, pumps, motors, valves; selection of items from the directory, execute technical drawings;								
Prerequisites and co-requisites									

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	project	60.0%	100.0%			
Recommended reading	Basic literature	STRYCZEK, S.: Napęd hydrostatyczny. T I i II. WNT, Warszawa 2005.      PASZOTA, Z.: Aspects Energetiques des Transmissions				
		Hydrostatiques. Wyd PG, Gdańsk 2002				
		3. GÓRSKI, Z.: Budowa i działanie okrętowych urządzeń hydraulicznych. TRADEMAR, Gdynia 2008.				
		4. DYMARSKI, Cz.: Okrętowe śruby nastawne. Wyd. PG, Gdańsk 2				
		5. BALCERSKI, A., BOCHEŃSKI, D.: Układy technologiczne i energetyczne jednostek oceanotechnicznych. Wydawnictwo PG, Gdańsk 1998.				
	Supplementary literature	-				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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