

Subject card

Subject name and code	, PG_00057311								
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			asses	assessment		
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor		dr inż. Wojciech Leśniewski						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	9.0	0.0	0.0	18.0		0.0	27	
	E-learning hours inclu	ided: 0.0							
Learning activity and number of study hours	Learning activity	g activity Participation in didactic classes included in student plan		Participation in consultation hours		Self-study		SUM	
	Number of study 27 nours			10.0		38.0		75	
Subject objectives	To acquaint students with the basic principles of designing electric drives								
Learning outcomes	Course outcome Subject outcome Method of verification					fication			
	[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					[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	[K7_W05] has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems		He can identify the basic devices and components of electric drive			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation			
	[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 is able to formulate the technical assumptions of the chosen device concept, make calculations of basic loads and strength of important assemblies and construction elements and perform preliminary drawing documentation			[SW1] Assessment of factual knowledge			
Subject contents	Electric drives of ship equipment, electric and hybrid drives of vessels								
Prerequisites and co-requisites	Knowledge of technical drawing, basics of machine construction, basics of electrotechnical systems								
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria			50.0%			30.0%			
			50.0%			70.0%			

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Recommended reading	Basic literature	1.Elektrotechnika okrętowa. Czytanie schematów J. WYSZKOWSKI			
		2.Elektrotechnika okrętowa. Napędy elektryczne J. WYSZKOWSKI			
		3.Elektrotechnika teoretyczna. Obwody prądu stałego T. PIOTROWSKI			
		4.Eksploatacja i diagnostyka elektrycznych urządzeń okrętowych J. MAJEWSKI			
		5.Bezpieczna praca elektryka i elektronika na statku H. ŁĄCZYŃSKI			
		6.Elektryczne urządzenia okrętowe. Laboratorium R. BIAŁEK,W. WOLCZYŃSKI, T. NOWAK, P. RUPNIK			
		7.Elektrotechnika i elektronika okrętowa - nowe wyd. R. BIAŁEK			
	Supplementary literature	Catalogs of manufacturers of electric motors			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/	Electric drive of a small passenger ferry				
example questions/ tasks being completed	Electric drive for rope winch				
Work placement	Not applicable				

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