

Subject card

Subject name and code	Electronics and electrical engineering, PG_00055286								
Field of study	Transport and Logistics								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
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			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Faculty of Ocean Engineering and Ship Technology								
Name and surname	Subject supervisor	dr inż. Wojciech Leśniewski							
of lecturer (lecturers)	Teachers	dr inż. Wojciech Leśniewski dr inż. Magdalena Kunicka							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	30.0	15.0	0.0	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		tudy	SUM	
	Number of study hours	45		5.0		50.0		100	
Subject objectives	Familiarize students with the basics of electrical engineering and electronics								
Learning outcomes	Course out	Subj		Method of verification					
	[K6_K01] is aware of the need of constant improvement within the range of the possessed job and knows the possibilities of further education		The student is able to solve simple problems in the field of electrical engineering and electronics.			[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice			
	[K6_W03] has a basic knowledge on hydromechanics, thermodynamics, machine construction, ecology, materials science and electronics necessary to understand the construction and operation principles of means of marine transport		The student knows the development trends in the field of modern electrical systems used in shipbuilding.			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
Subject contents	Basic physical quantities in electrical engineering. Elements of RLC circuits Analysis of electrical circuits (Ident. Circuits) Solving circuits in the time domain Symbolic method of solving electrical circuits. (complex numbers) Analysis of electric circuits. solving graphical method Analysis of electric circuits. solving analytical method Impedance replacement Magnetism. The magnetic circuit Solving magnetic circuits Circuits associated 3f ~, The system ee Processing e.e to other types of energy								
Prerequisites and co-requisites	The knowledge of mathematics and physics of university level								
Assessment methods	Subject passin	g criteria	Passing threshold			Per	Percentage of the final grade		
and criteria	test		50.0%			100.0%			

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Recommended reading	Basic literature					
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		Podstawy elektrotechniki i elektroniki. St.Bolkowski				
		Teoria obwodów elektrycznych. St.Bolkowski				
		Flaktvataahnika i alaktvanika akvatawa nawa wud D. BIAKEK				
		Elektrotechnika i elektronika okrętowa - nowe wyd. R. BIAŁEK				
	Supplementary literature					
	, ,					
		Podstawy elektrotechniki i elektroniki. R. Kurdziel				
		Elektrotechnika okrętowa. Czytanie schematów J. WYSZKOWSKI				
		Elektrotechnika okrętowa. Napędy elektryczne J. WYSZKOWSKI				
		Elektrotechnika teoretyczna. Obwody prądu stałego T. PIOTROWSKI				
		Liektioteciilika teoretyczna. Obwody prądu stalego 1.11011\Owski				
		Eksploatacja i diagnostyka elektrycznych urządzeń okrętowych J. MAJEWSKI				
		Bezpieczna praca elektryka i elektronika na statku H. ŁĄCZYŃSKI				
		Bezpicezna praca cickayka reiektronika na statka m. E-foz mora				
		5.44				
		Elektryczne urządzenia okrętowe. Laboratorium R. BIAŁEK,W. WOLCZYŃSKI, T. NOWAK, P. RUPNIK				
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	eResources addresses	Adresy na platformie eNauczanie:				
		Elektrotechnika i Elektronika OCE/TiL/PiBJ - Moodle ID: 29995				
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29995				
Example issues/	Description and solution electrical circuits. in the time domain and symbolic method.					
example questions/	Impedance replacement of electrical circuits. Resonances in the electrical circuits					
tasks being completed						
	Magnetic circuits - solving systems.					
Work placement	Not applicable					

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