

Subject card

Subject name and code	Electronics and electrical engineering, PG_00041669								
Field of study	Transport and Logistics, Transport and Logistics								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/2022			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study 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	Department of Marine	Department of Marine Mechatronics -> Faculty of Ocean Engineering and Ship Technology							
Name and surname of lecturer (lecturers)	Subject supervisor dr inż. Wojciech Leśniewski								
	Teachers		dr inż. Magdalena Kunicka						
			dr inż. Wojciech Leśniewski						
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 inclu	ıded: 0.0			1			-	
	Adresy na platformie eNauczanie: Elektrotechnika i elektronika w+ćw zima 2021/2022 OCE [PG_00041777] + TIL [PG_00041669] - Moodle ID: 17812 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17812								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study		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	Subject outcome			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		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			
			modern electrical systems used in			[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								

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Prerequisites								
and co-requisites								
	The knowledge of mathematics and physics of university level							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	test	50.0%	100.0%					
Recommended reading	Basic literature							
Trecommended reading								
		Podstawy elektrotechniki i elektroniki. St.Bolkowski Teoria obwodów elektrycznych. St.Bolkowski						
		Teeria edwodow eiektrycznych. St. Dokowski						
		Elektrotechnika i elektronika okrętowa - nowe wyd. R. BIAŁEK						
	Supplementary literature							
		Podetovny elektrotechniki i elektroniki B. Kurdziel						
		Podstawy elektrotechniki i elektroniki. R. Kurdziel						
		Elektrotechnika okrętowa. Czytanie schematów J. WYSZKOWSKI						
		Elektrotechnika okrętowa. Napędy	v elektryczne J. WYSZKOWSKI					
		Elektrotechnika teoretyczna. Obwody prądu stałego T. PIOTROWSKI Eksploatacja i diagnostyka elektrycznych urządzeń okrętowych J. MAJEWSKI Bezpieczna praca elektryka i elektronika na statku H. ŁĄCZYŃSKI						
		Elektryczne urządzenia okrętowe.	Laboratorium R. BIAŁEK.W.					
		WOLĆZYŃSKI, T. NOWAK, P. RL						
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	eResources addresses	Elektrotechnika i elektronika w+ćv	w zima 2021/2022 OCE					
		[PG_00041777] + TIL [PG_00041	669] - Moodle ID: 17812					
		https://enauczanie.pg.edu.pl/mood	dle/course/view.php?id=17812					
Example issues/								
example questions/	Description and solution electrical of	circuits. in the time domain and symb	polic method.					
tasks being completed								
	Impedance replacement of electrical circuits. Resonances in the electrical circuits							
	Magnetic circuits - solving systems.							
Work placement	Not applicable							
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