

Subject card

Subject name and code	, PG_00055307								
Field of study	Ocean Engineering								
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. Magdalena Kunicka						
		ch 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 0.0		45	
	E-learning hours inclu							+	
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		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_W03] has a basic knowledge on hydromechanics, thermodynamics, machine construction, ecology, materials science and electronics necessary to understand the construction and operation principles of ocean technology objects and equipment		The student knows the development trends in the field of modern systems electric used in shipbuilding			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
	[K6_K01] is aware of the need of constant improvement within the range of the possessed job and knows the possibilities of further education		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 [SK4] Assessment of communication skills, including language correctness			
Subject contents Prerequisites	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								
and co-requisites	The knowledge of mathematics and physics of university level								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	test	50.0%	100.0%			
Recommended reading	Basic literature					
		Podstawy elektrotechniki i elektroniki. St.Bolkowski				
		Teoria obwodów elektrycznych. St.Bolkowski 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. WYSZKOWS				
		Elektrotechnika teoretyczna. Obwody prądu stałego T. PIOTROWSKI				
		Eksploatacja i diagnostyka elektrycznych urządzeń okrętowy MAJEWSKI				
		Bezpieczna praca elektryka i elektronika na statku H. ŁĄCZYŃSKI				
		Elektryczne urządzenia okrętowe. Laboratorium R. BIAŁEK,W. WOLCZYŃSKI, T. NOWAK, P. RUPNIK				
		I				
	eResources addresses	Adresy na platformie eNauczanie: Elektrotechnika i Elektronika OCE/ https://enauczanie.pg.edu.pl/moodl				
Example issues/ example questions/ tasks being completed	Description and solution electrical circuits. in the time domain and symbolic method.					
	Impedance replacement of electrical circuits. Resonances in the electrical circuits					
	Magnetic circuits - solving systems.					
Work placement	Not applicable					

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