

Subject card

Subject name and code	, PG_00041835								
Field of study	Ocean Engineering, Ocean Engineering								
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	Part-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 Mechatronics -> Faculty of Ocean Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Wojciech Leśniewski						
	Teachers		dr inż. Wojciech Leśniewski						
			dr inż. Magdalena Kunicka						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	20.0	10.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
	Elektrotechnika i elektronika niestacjonarne zima 2021/2022 [PG_00041835] - Moodle ID: 17814 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17814								
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	30	5.0		65.0		100		
Subject objectives	Familiarize students with the basic issues in the field of electrical engineering and electronics								
Learning outcomes	Course outcome		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		Knowledge of the latest trends and directions of development of electric drives in the shipbuilding industry.			[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 ocean technology objects and equipment		Knowledge of basic laws and issues in the field of electrical engineering			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			

Data wydruku: 03.04.2024 06:18 Strona 1 z 2

Subject contents	Basic physical quantities in electrical engineering. Elements of RLC electric circuits. Analysis of electric circuits and marking of these systems. Solving electrical circuits in the time domain. Analysis of electric circuits - solving using the graphical method. Analysis of electrical circuits - solving with the analytical method. Equivalent impedance. Magnetic circuits - analysis and solving of magnetic circuits. Associated three-phase circuits. Conversion of electrical energy into mechanical energy, thermal energy.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	test	50.0%	100.0%				
Recommended reading	Basic literature Basic electronics engineering						
J. Company of the com	Supplementary literature Basic electronics engineering						
	eResources addresses Elektrotechnika i elektronika niestacjonarne zima 2021/2022 [PG_00041835] - Moodle ID: 17814 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17814						
Example issues/ example questions/ tasks being completed	Calculating the equivalent impedance for a circuit. Calculation of current and voltage flows.						
Work placement	Not applicable						

Data wydruku: 03.04.2024 06:18 Strona 2 z 2