

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Electrotechnics and Electronics in Transport, PG_00060645								
Field of study	Transport and Logistics								
Date of commencement of studies			Academic year of realisation of subject			2024/2025			
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	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Division of Marine Auxiliary Machinery -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology						cal		
Name and surname	Subject supervisor dr inż. Wojciech Leśniewski								
of lecturer (lecturers)	Teachers		dr inż. Magdalena Kunicka						
			dr inż. Wojciech Leśniewski						
		dr inż. Konrad Marszałkowski							
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	earning activity Participation in classes include plan				Self-study SUM			
	Number of study hours	45		4.0		26.0		75	
Subject objectives	Familiarize students v	with the basics	of electrical en	gineering and	electron	ics			
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K6_W03] has well structured knowledge of hydromechanics, thermodynamics, machine construction, ecology, material science and electrical engineering necessary to understand the principles of construction and operation of means of water transport		electronics and is able to use it as part of analytical and design tasks related to ocean technical issues			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
	[K6_K01] is aware of the need for continuous improvement in the field of the profession and knows the possibilities of further education		The student is able to notice shortcomings knowledge in a specific field i can complete them			[SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	 Electric current, sources of electricity, basics of electrical circuits. Magnetic field and electromagnetism. Sources of electricity 1. AC circuits, power in AC systems. Sources of electricity 2 Control systems in electrical engineering and electronics. Ship energy systems and electrical installations. Electronic Components I Electronic components I Electronic components I Measurements of non-electrical quantities and long-distance signal transmission. Classification regulations in shipbuilding: Electrical installations and control systems. Basics of radio technology 								

Prerequisites and co-requisites	The knowledge of mathematics an	d physics of university level					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria		50.0%	50.0%				
		50.0%	50.0%				
Recommended reading	Basic literature						
	Supplementary literature						
	eResources addresses	Adresy na platformie eNauczanie: Elektrotechnika i elektronika w transporcie (PG_00060645) - Moodle ID: 41664 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=41664					
Example issues/ example questions/ tasks being completed	Description and solution electrical circuits. in the time domain and symbolic method.						
0	Impedance replacement of electrical circuits. Resonances in the electrical circuits Magnetic circuits - solving systems.						
Work placement	Not applicable	Not applicable					

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