

Subject card

Subject name and code	Electrical Engineering, PG_00039312								
Subject name and code	3 - 2 -								
Field of study	Medical and Mechanical Engineering, Mechanical and Medical 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			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Power Electronics and Electrical Machines -> Faculty of Electrical and Control Engineeri					Engineering			
Name and surname	Subject supervisor		dr inż. Filip Kutt						
of lecturer (lecturers)	Teachers	dr inż. Krzysztof Iwan							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory Project		t	Seminar	SUM	
	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity	Participation i classes including		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		3.0		17.0		50	
Subject objectives	The objective of the course is to familiarize students with the basic laws of electrical engineering and the basics of electrical and electromechanical energy conversion								
Learning outcomes	Course outcome Subject outcome Method of verification								
	K6_U01		The student has the ability to read electrical diagrams. The student has the ability to interpret and correctly analyse the results of simulation and experimental research			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information			
K6_W06			The student knows and understands the basic concepts and laws of electrical and electromechanical energy conversion			[SW1] Assessment of factual knowledge			
Subject contents	Principles and laws of electrical engineering. Measurements of electrical and non-electrical quantities. Electric drives. Production and distribution of electricity in the power system. Basics of electronics and power electronics. Rules for safe work with electrical devices.								
Prerequisites and co-requisites	Knowledge of basic laws of physics. Ability to use tools of analytical mathematics								
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	l criteria Practical exercises		50.0%		50.0%				
	Written exam		50.0%		50.0%				
Recommended reading	Basic literature		Hambley A. R. Electrical Engineering Principles And Application, Pearson 2014 Szumanowski A. Basics of Electrical Engineering, Electrotechnics, Electronics And Electric Machines Oficyna Wydawnicza Politechniki Warszawskiej						

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	Supplementary literature	Dennis T. H. Practical Marine Electrical Knowledge, Witherby Seamanship International Ltd			
	eResources addresses				
Example issues/ example questions/ tasks being completed	Provide and explain the definition of electric current.Present and explain the definitions of the RMS value of electric current.How can the speed of an induction / asynchronous motor be controlled?				
Work placement	Not applicable				

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