

Subject card

Subject name and code	Electrical Engineering, PG_00040184							
Field of study	Mechanical Engineering							
Date of commencement of studies	October 2023		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			English		
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 Engineering							
Name and surname	Subject supervisor	dr inż. Filip Kutt						
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0	0.0		30
Learning activity and number of study hours	E-learning hours included: 0.0 Learning activity Participation in		n didactic Participation in		Self-study SUM			
	Learning activity	classes includ		consultation hours		Sell-study		SOIVI
	Number of study hours 30			6.0		14.0		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_W10		The student knows and understands the basic concepts and laws of electrical and electromechanical energy conversion			[SW1] Assessment of factual knowledge		
	K6_U05					[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools		
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 and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade		
	Practical exercises		50.0%			50.0%		
	Written exam					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 					
	Supplementary literature		Dennis T. H. Practical Marine Electrical Knowledge, Witherby Seamanship International Ltd					
	eResources addresses		Adresy na platformie eNauczanie:					
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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