

Subject card

Subject name and code	Electrical Engineering, PG_00040184							
Field of study	Mechanical Engineering, Mechanical Engineering							
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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			English		
Semester of study	4		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Power	d Electrical Machines -> Faculty of Electrical and Control Engineering						
Name and surname	Subject supervisor		dr inż. Filip Kutt					
of lecturer (lecturers)	Teachers		dr inż. Filip Kutt					
(dr inż. Ireneusz Mosoń					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM
of instruction	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	ing activity Participation in didactic classes included in study plan		Participation in consultation hours		Self-study S		SUM
	Number of study 30 hours			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_U05		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		
			electrical diag has the ability correctly analy simulation and	rams. The stude to interpret an yse the results	dent id of	use me [SU2] A	Assessment of	
	K6_W10		electrical diag has the ability correctly analy simulation and research The student k	rams. The student of interpret an appear the results of experimental mows and the basic concept control and the desired and the student interpretation of th	dent id of	use me [SU2] A analyse	Assessment of e information Assessment of	ability to
Subject contents	K6_W10 Principles and laws of Electric drives. Production electronics. Rules for	ction and distri	electrical diag has the ability correctly analysimulation and research The student k understands to and laws of electromecha conversion ineering. Meas bution of electr	rams. The student of interpret and syse the results of experimental nows and he basic concelectrical and inical energy are urements of elicity in the power and the power and the power are the student and the student and the student are the student and the student are th	dent of epts ectrical	use me [SU2] / analyse [SW1] / knowle	Assessment of e information Assessment of dge	ability to
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example questions/	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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