

Subject card

Cubicat name and cada	Metrology II, PG_00056027							
Subject name and code								
Field of study	Electrical Engineering							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026		
Education level	first-cycle studies		Subject group					
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			2.0		
Learning profile			Assessment form			assessment		
Conducting unit	Department of Metrology and Information Systems -> Faculty of Electrical and Control Engineering							
Name and surname of lecturer (lecturers)			dr inż. Marek Wołoszyk					
	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ect Seminar		SUM
	Number of study hours	0.0	0.0	30.0	0.0		0.0	30
	E-learning hours included: 0.0							
Learning activity and number of study hours	earning activity Participation in classes include plan			Participation in consultation hours		Self-study		SUM
	Number of study hours	30		2.0	2.0			50
Subject objectives	Introduce students with the methods and tools for measuring electrical and nonelectical quantities							
Learning outcomes	Course out	Subject outcome			Method of verification			
	K6_K02							
	K6_U02							
	K6_W05							
Subject contents	LABORATORY Analysis of measurement data. Calibration. Measurement of RLC parameters. Oscilloscope measurement. Power measurement of three phase circuits. Measurement of sinusoidal and distorted waveforms. Computer processing of measurement signals. Electrical temperature measurements. Examination of selected displacement sensors.							
Prerequisites and co-requisites	Basic knowledge of electrical engineering and electrical circuit analysis. Knowledge of the Metrology I course.							
Assessment methods and criteria	Subject passin	Passing threshold			Percentage of the final grade			
	Practical exercise		60.0%			100.0%		
Recommended reading	Basic literature 1. Praca zbiorowa (red. Swędrowski L.): METF laboratorium. Wydawnictwo Politechniki Gd							
	Supplementary literature		 Chwaleba A., Poniński M., Siedlecki A.: Metrologia elektryczna. WNT, 2010. Tumański S.: Technika pomiarowa. WNT, 2016. Lisowski M.: Podstawy metrologii. Oficyna Wydawnicza Politechniki Wrocławskiej, 2011. 					
	eResources addresse	Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Explain the concepts of median and modal values. Measurement error of insensitivity in a Wheatstone bridge.							
	The methods and sensors used for the teperature measurements.							
Work placement	Not applicable	Not applicable						

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