



Subject card

Subject name and code	Electrical Equipment, PG_00038410						
Field of study	Electrical Engineering						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies	Subject group			Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	Part-time studies	Mode of delivery			at the university		
Year of study	3	Language of instruction			Polish		
Semester of study	5	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Department of Electrical Power Engineering -> Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Waldemar Kamrat					
	Teachers	dr inż. Kornel Borowski prof. dr hab. inż. Waldemar Kamrat					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	20.0	0.0	10.0	0.0	0.0	30
E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours		Self-study	SUM	
	Number of study hours	30	4.0		41.0	75	
Subject objectives	Acievement of choice and background of electrical devices						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_W11	The student learns the principles of designing electrical installations and electric lighting, controlling electrical devices, and making technical drawings			[SW3] Assessment of knowledge contained in written work and projects		
	K6_U09	The student is able to select power equipment for long-term, transient loads and short-circuit conditions			[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
Subject contents	Equipment of transformer stations.Wires and electric distribution apparatus.Classification and selection of devices.Costing elements.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	colloquium	51.0%			100.0%		
Recommended reading	Basic literature	1. Marzecki J.: Projektowanie stacji. Wyd. PW. 2. Musiał E.: Urządzenia elektryczne. PWSZ. 3. Kamrat W.: Metody oceny efektywności inwestowania w elektroenergetyce. Wyd.PG 4. Industrial datasheets, international standards and other supplementary materials for design process					
	Supplementary literature	No special recommendations					
	eResources addresses	Adresy na platformie eNauczanie: URZĄDZENIA ELEKTRYCZNE [Niestacjonarne][2023/24] - Moodle ID: 31956 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31956					

Example issues/ example questions/ tasks being completed	Electrical devices choice rules. Tendency of technical and technological solutions development
Work placement	Not applicable