

Subject card

Subject name and code	Electrical equipment and installations (WEIA), PG_00042094									
Field of study	Power Engineering, Power Engineering									
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024				
Education level	first-cycle studies		Subject group							
Mode of study	Full-time studies		Mode of delivery			at the university				
Year of study	3		Language of instruction			English				
Semester of study	6		ECTS credits			4.0				
Learning profile	general academic profile		Assessment form			assessment				
Conducting unit	Department of Electrical Power Engi		ineering -> Faculty of Electrical and C			ontrol Engineering				
Name and surname	Subject supervisor		prof. dr hab. inż. Zbigniew Lubośny							
of lecturer (lecturers)	Teachers		prof. dr hab. i	ubośny						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial Laboratory Project		t	Seminar	SUM			
	Number of study hours	15.0	0.0	.0 0.0 0.0			15.0	30		
	E-learning hours included: 0.0									
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM		
	Number of study hours	of study 30		5.0		65.0		100		
Subject objectives	Acquainting with the construction and principles of selection of elements of electrical installations.									
Learning outcomes	Course out	Course outcome Subject outcome Method of verifica					erification			
	[K6_K03] is able to remergency situation: health and life when devices, is aware of engineering activities environment [K6_U01] can obtain from literature and of organize, interpret it formulate conclusion ability to self-educate the results of comple engineering tasks, is design simple energy their systems [K6_W05] has struct knowledge in the fiel engineering and elect necessary to understoaks of operation a of electrical machine transmission system electronic devices [K6_W03] knows the automation, knows that the selection of elect drive systems and the									
Subject contents	Electrical installations - definitions, structure, requirements. Impact of working and short-circuit currents on installation components. Power cables, fuses, circuit breakers, differential circuit breakers - design and characteristics. Principles of installation design.									
Prerequisites and co-requisites	Basics of electrical engineering.									
Assessment methods	Subject passin	Subject passing criteria			Passing threshold			Percentage of the final grade		
and criteria	Test	60.0%			100.0%					

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Recommended reading	Basic literature	Markowski H.: Urządzenia i instalacje elektroenergetyczne. WNT Warszawa 2006. Musiał E.: Urządzenia elektroenergetyczne. PWSiP, Warszawa 200 Poradnik Inżyniera elektryka. WNT Warszawa 2011. N SEP-E-002 Instalacje elektryczne w obiektach budowlanych. Instalacje elektryczne w obiektach budowlanych. Unstalacje elektryczne w obiektach mieszkalnych. Warszawa 2006. Electrical installation guide. According to IEC International Standard Schneider Electric, 2018 Electrical installations handbook. Protection, control and electrical devices. ABB SACE 2010				
	Supplementary literature	Ismail Kasikci, Short Circuits in Power Systems. A practical Guide to IEC 60909. Wiley-VCH. 2002. IEC 60364)Low-voltage electrical installations. PN-IEC 60364 Instalacje elektryczne w obiektach budowlanych. Bill Atkinson, Electrical Installations Designs. John Wiley & Sons, 2013				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Design a part of the installation in terms of cable selection and protection (fuse, circuit breaker).					
Work placement	Not applicable					

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