

关。GDAŃSK UNIVERSITY 创 OF TECHNOLOGY

Subject card

Subject name and code	Electric Equipment and Wiring Systems, PG_00042166							
Field of study	Power Engineering, Power Engineering, Power Engineering, Power Engineering, Power Engineering							
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	3		Language of instruction			Polish		
Semester of study	6		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Electri	neering -> Faculty of Electrical and Control Engineering						
Name and surname	Subject supervisor		prof. dr hab. inż. Zbigniew Lubośny					
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	tory Project Seminar		SUM	
	Number of study hours	15.0	0.0	0.0	15.0		0.0	30
	E-learning hours inclu	ided: 0.0						
Learning activity and number of study hours	_earning activity Participation in classes include plan		n didactic ed in study	Participation in consultation hours		Self-study		SUM
	Number of study 30 hours			3.0		17.0		50
Subject objectives	Acquainting with the construction and principles of selection of elements of electrical installations							
Learning outcomes	Course outcome Subject outcome Method of verification						ication	
	K6_W08		The student knows the circuits and systems of protection against electric shocks and the phenomena occurring during normal and emergency operation of electrical installations.			[SW3] Assessment of knowledge contained in written work and projects		
	K6_U04		The student is able to select the elements of an electrical installation and is able to design an electrical installation.			[SU1] Assessment of task fulfilment		
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 passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Test		60.0%			100.0%		
Recommended reading	Basic literature		Markowski H.: Urządzenia i instalacje elektroenergetyczne. WNT Warszawa 2006. Musiał E.: Urządzenia elektroenergetyczne. PWSiP, Warszawa 2003. Poradnik Inżyniera elektryka. WNT Warszawa 2011. N SEP-E-002 Instalacje elektryczne w obiektach budowlanych. Instalacje elektryczne w obiektach mieszkalnych. Warszawa 2006. Electrical installation guide. According to IEC International Standards.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					
	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 installation).
Work placement	Not applicable