

Subject card

Subject name and code	, PG_00062079								
Field of study	Civil Engineering								
Date of commencement of studies			Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group						
Mode of study	Part-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	general academic profile		Assessment form			assessment			
Conducting unit	Department of Electrical Engineering of Transport -> Faculty of Electrical and Control Engineering					ng			
Name and surname	Subject supervisor		dr hab. inż. Jacek Skibicki						
of lecturer (lecturers)	Teachers		dr hab. inż. Jacek Skibicki dr inż. Izabela Prażuch						
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Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory			Seminar	SUM	
of instruction	Number of study hours	10.0	5.0 0.0 0.0		0.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes including plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	15	0.0			0.0		15	
Subject objectives	The main purpose of the subject is to become familiar with the principles of using electrical installations and the basics of their design. Information on the construction of electrical installations, their types, protections, electric shock protection, etc. will be provided. In addition, students will learn the methods of energy transmission in the power system and how to produce it.								
Learning outcomes	Course out	come	Subject outcome			Method of verification			
	[K6_U03] Design engineering objects and details, processes and engineering systems by applying appropriate standards and methods of design.		The student is able to select elements of the electrical installation in a residential building and the power supply installation.			[SU1] Assessment of task fulfilment			
			The student is able to recognize the elements of the electrical installation, assign devices to particular protection classes, and is able to determine the conditions for conducting the electrical installation in the room.			[SW1] Assessment of factual knowledge			
[K6_U04] Reads and prepares construction documentation (including drawings, graphic documentation in the CAD environment), efficiently uses maps as well as architectural, construction and geodetic drawings.		The student is able to design elements of the electrical installation system in a residential building based on the assumed power of electrical loads.			[SU1] Assessment of task fulfilment				
Subject contents	The concept of electrical installation. Construction of domestic and industrial installations. Electricity receivers. Overcurrent protection. Electric shock protection. Electrical installation in industry. Electricity transmission, overhead and cable lines. Electricity generation, conventional, nuclear, hydro, wind, solar and micro power plants. Prosument installations.								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	Colloquium on exercises		60.0%		40.0%				
	Lecture final test		60.0%			60.0%			

Recommended reading	Basic literature	Musiał. E.: Instalacje i urządzenia elektroenergetyczne. Warszawa. WSiP.				
		Wiatr J., Orzechowski M.: Poradnik projektanta elektryka. Warszawa. Medium.				
		Czapp S. Ochrona przeciwporażeniowa w sieciach i instalacjach niskiego napięcia. Warszawa PWN				
	Supplementary literature	Niestępski S, Parol M., Pasternakiewicz J., Wiśniewski T.: Instalacje elektryczne, budowa, projektowanie i eksploatacja. Warszawa OWPW.				
		Lichnowski J.: Urządzenia elektryczne na placu budowy. Warszawa. Arkady.				
	eResources addresses	Adresy na platformie eNauczanie:				
		Instalacje budowlane (elektryczne) - Moodle ID: 42102 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=42102				
Example issues/ example questions/ tasks being completed	Selecting the cross section of electrical wiring. Selection of short-circuit protection.					
Work placement	Not applicable					

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