

## Subject card

Subject name and code	Building Installations I, PG_00062073									
Field of study	Instalacje budowlane l									
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			1.0				
Learning profile	general academic profile		Assessment form			assessment				
Conducting unit	Department of Electrified Transportation -> Faculty of Electrical and Control Engineering -> Wydziały Politechniki Gdańskiej							działy		
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Jacek Skibicki							
	Teachers		dr inż. Izabela Prażuch							
	dr hab. inż. Jacek Skibicki									
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM		
, , , , , , , , , , , , , , , , , , ,	Number of study hours	7.0	8.0	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 include plan		Participation in consultation hours		Self-study		SUM		
	Number of study hours	15 0.0		0.0 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 outcome Subject outcome					me Method of verification			fication		
	[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] Ocena realizacji zadania				
	[K6_W04] Knows the rules of descriptive geometry and technical drawing for preparing and reading architectural, construction and geodetic drawings; also with the use of CAD		The student is able to recognize and correctly interpret the elements and assumptions of the construction of an electrical installation in a residential building.			[SW1] Ocena wiedzy faktograficznej				
	(including drawings, graphic		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] Ocena realizacji zadania				
	the processes, established standards and design methods in the civil engineering subject area and of their limitations.		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] Ocena wiedzy faktograficznej				

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Subject contents  Prerequisites	Course content – lecture 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 instalations.  Course content – exercises Calculation of basic parameters of electrical installations.					
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	Supplementary 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  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					
Example issues/ example questions/ tasks being completed	Selecting the cross section of electrical wiring. Selection of short-circuit protection.					
Practical activites within the subject	Not applicable					

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