



## Subject card

Subject name and code	Building instalation, PG_00052818						
Field of study	Architecture						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2022/2023		
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	Full-time studies	Mode of delivery			e-learning		
Year of study	3	Language of instruction			Polish		
Semester of study	6	ECTS credits			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Technical Fundamentals of Architecture Design -> Faculty of Architecture						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. arch. Michał Kwasek					
	Teachers	dr inż. arch. Michał Kwasek					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 15.0 Additional information: Lectures are conducted remotely using the university's eLearning platform.						
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	15	1.0		9.0		25
Subject objectives	To learn about branch design issues in the field of technical building equipment and their impact on the architecture of the building.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W01] knows and understands construction problems, building and engineering issues related to building design; principles, solutions, constructions and building materials used in simple engineering tasks in the field of architectural and urban design	Student learns about branch design issues in the field of building technical equipment and their impact on the architecture of the building.			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects		
	[K6_U02] is able to design an architectural object or a simple urban complex that meets the aesthetic and technical requirements	Can analyze local/technical determinants in the context of the availability of urban networks. Is able to verify the correctness of the adopted design solutions in terms of the feasibility of building installations in the building.			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject		

Subject contents	<p>The lectures are in the form of multimedia presentations, which present theoretical and practical issues related to the implementation of technical installations in buildings and rooms of various purposes.</p> <p>Lecture topics:</p> <ul style="list-style-type: none"> <li>- building connections to municipal networks,</li> <li>- electrical installation</li> <li>- plumbing and rainwater drainage installations,</li> <li>- heating of buildings and production of hot water,</li> <li>- mechanical ventilation,</li> <li>- fire protection systems,</li> <li>- pro-ecological installations</li> </ul>								
Prerequisites and co-requisites	Has basic knowledge of material and construction solutions for building structures.								
Assessment methods and criteria	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Subject passing criteria</th> <th style="width: 25%;">Passing threshold</th> <th style="width: 25%;">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>evaluation from the colloquium</td> <td>55.0%</td> <td>100.0%</td> </tr> </tbody> </table>	Subject passing criteria	Passing threshold	Percentage of the final grade	evaluation from the colloquium	55.0%	100.0%		
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Recommended reading	Basic literature	<p><i>Ustawa Prawo Budowlane</i> wraz z przepisami wykonawczymi (przepisy techniczne)</p> <p>Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie. (Dz. U. Nr 75, poz. 2351) z późniejszymi zmianami.</p>							
	Supplementary literature	<p>Borysiuk S., Sanitarno-higieniczne zasady projektowania zakładów gastronomicznych i obiektów handlowych (miejsc obrotu) z artykułami żywnościowymi, opracowanie. PZITS, Warszawa 1999.</p>							
	eResources addresses	Adresy na platformie eNauczanie:							
Example issues/ example questions/ tasks being completed	Develop a survey of the installations present in the building. List the method of routing mechanical ventilation ducts in the building. Identify ways to select the number and location of internal hydrants in the building. Describe the selected method of heating installation in the building.								
Work placement	Not applicable								