



Subject card

Subject name and code		Building installation elements project I, PG_00055607						
Field of study		Architecture						
Date of commencement of studies		October 2021	Academic year of realisation of subject			2023/2024		
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		5	ECTS credits			1.0		
Learning profile		general academic profile	Assessment form			assessment		
Conducting unit		Department of Technical Fundamentals of Architectural Design -> Faculty of Architecture						
Name and surname of lecturer (lecturers)		Subject supervisor		dr inż. arch. Michał Kwasek				
		Teachers		mgr inż. arch. Bartosz Baranowski dr inż. arch. Michał Kwasek				
Lesson types and methods of instruction		Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
		Number of study hours	0.0	0.0	0.0	15.0	0.0	15
		E-learning hours included: 0.0						
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	2.0		8.0		25
Subject objectives		<p>To familiarize oneself with the branch design issues in the field of building technical equipment and their influence on the architecture of the object.</p> <p>Acquiring skills of analyzing external conditions for the designed object and preparing it for installation of properly selected building installations with it.</p>						
Learning outcomes		Course outcome	Subject outcome		Method of verification			
		[K6_U04] is able to use analytical methods to formulate and solve project tasks	The student is able to analyze local/technical conditions in the context of the availability of urban networks. Is able to verify the correctness of the adopted design solutions in terms of the implementation feasibility of building installations in the building.		[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
		[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	A student learns about branch design issues in the field of building technical equipment and their impact on the architecture of the building.		[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			

Subject contents	<p>In the course of classes, students carry out assigned design tasks on architectural issues related to the preparation of the object for installation of various types of building systems with it.</p> <p>The general scope of design tasks performed in class:</p> <ul style="list-style-type: none"> <li>- designed installations in the building - survey of installations present in the building</li> <li>- analysis of the floor plan containing technical rooms</li> <li>- analysis of the roof projection with indication of the location of installation elements</li> <li>- detail of the installation shaft (water and sewage, DHW, water supply, central heating)</li> <li>- problems of smoke removal from the building</li> <li>- pro-ecological solutions in the designed building</li> <li>- mechanical ventilation in the building.</li> </ul>								
Prerequisites and co-requisites									
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>exercises task evaluation</td> <td>100.0%</td> <td>100.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	exercises task evaluation	100.0%	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)</p>							
	Supplementary literature	<p>Borysiuk S., Sanitarno-higieniczne zasady projektowania zakładów gastronomicznych i obiektów handlowych (miejsc obrotu) z artykułami żywnościovymi, opracowanie. PZITS, Warszawa 1999.</p>							
	eResources addresses	<p>Adresy na platformie eNauczanie:</p> <p>Building installations MK45/2, 2023/24 - Moodle ID: 33630  <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33630">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33630</a></p>							
Example issues/ example questions/ tasks being completed	<p>Develop a survey of the systems present in the building.</p> <p>Securing required technical rooms in the building.</p> <p>Preparation of a drawing of a roof plan with an indication of the rain water drainage method.</p> <p>Preparation of the drawing of the underground storey with indication of the technical rooms for connection to the municipal networks.</p>								
Work placement	Not applicable								

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