



## Subject card

Subject name and code	Building installation elements project, PG_00052819						
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		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 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  mgr inż. arch. Bartosz Baranowski				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0	0.0	30
	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	30		4.0		16.0	50
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_U02] is able to design an architectural object or a simple urban complex that meets the aesthetic and technical requirements		Can 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 feasibility of building installations in the building.		[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [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.		[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation		

Subject contents	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.  The general scope of design tasks performed in class: - designed installations in the building - survey of installations present in the building - analysis of the floor plan containing technical rooms - analysis of the roof projection with indication of the location of installation elements - detail of the installation shaft (water and sewage, DHW, water supply, central heating) - problems of smoke removal from the building - pro-ecological solutions in the designed building - mechanical ventilation in the building.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	exercises task evaluation	100.0%	100.0%
Recommended reading	Basic literature	<i>Ustawa Prawo Budowlane</i> wraz z przepisami wykonawczymi (przepisy techniczne)  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)	
	Supplementary literature	Borysiuk S., Sanitarno-higieniczne zasady projektowania zakładów gastronomicznych i obiektów handlowych (miejsc obrotu) z artykułami żywnościowymi, opracowanie. PZITS, Warszawa 1999.	
	eResources addresses	Adresy na platformie eNauczanie: Instalacje budowlane_Building installations MK45/2, 2022/23 - Moodle ID: 27722 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27722">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27722</a>	
Example issues/ example questions/ tasks being completed	Develop a survey of the systems present in the building.  Securing required technical rooms in the building.  Preparation of a drawing of a roof plan with an indication of the rain water drainage method.  Preparation of the drawing of the underground storey with indication of the technical rooms for connection to the municipal networks.		
Work placement	Not applicable		