



Subject card

Subject name and code	Building installation elements project I, PG_00061218						
Field of study	Architecture						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027		
Education level	first-cycle studies		Subject group		Optional subject group		
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		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Technical Fundamentals of Architectural Design -> Faculty of Architecture -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. arch. Michał Kwasek				
	Teachers						
Lesson types	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	To familiarize oneself with the branch design issues in the field of building technical equipment and their influence on the architecture of the object. Acquiring skills of analyzing external conditions for the designed object and preparing it for installation of properly selected building installations with it.						
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		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		
	[K6_U04] is able to use analytical methods to formulate and solve project tasks		is able to develop technological solutions for individual building elements; is able to use analytical methods to formulate and solve design tasks		[SU4] Assessment of ability to use methods and tools		
Subject contents	Course content – project 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		
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.		
Practical activities within the subject	Not applicable		

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