GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Building installation elements project III, PG_00055680		
Field of study	Architecture		
Date of commencement of studies	October 2021	Academic year of realisation of subject	2024/2025
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	4	Language of instruction	Polish
Semester of study	8	ECTS credits	2.0
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	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	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	3.0	17.0	50

Subject objectives	
	Complement existing knowledge of design issues in the field of technical equipment of buildings and their impact on the architecture of the facility. To acquire the ability to analyze the external conditions for the designed facility and prepare it for installation of appropriately selected building installations in it. Simulation of branch coordination in the investment process.

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	The ability to perform effective building design, taking into account the optimal arrangement of installations inside the facility, ensuring both functionality and architectural aesthetics. Student is able to verify the correctness of of the adopted solutions design in terms of the possibility of implementation in the building installations.	[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
[K6_W05] knows and understands issues related to architecture and urban planning in the context of the multi-discipline character of architectural and urban design; laws and procedures necessary to implement building designs; estimation of costs principles, project management, cost control methodology and principles of implementing a construction project	Understanding the complex issues of architecture and Urban planning in the context of architectural design, Taking into account the various industries related to construction. Ability to analyze and interpret specific installation requirements and their integration with architectural design, ensuring harmonious and effective collaboration with other branch specialists. Knowledge of current legislation and procedures necessary for building projects, including installation issues.	[SW3] Assessment of knowledge contained in written work and projects

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 plan with indication of the location of installation elements.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Evaluation of engineering diploma boards	55.0%	100.0%

Recommended reading

Basic literature	The Construction Law along with implementing regulations (technical regulations).Regulation of the Minister of Infrastructure dated April 12, 2002 on the technical conditions to be met by buildings and their location. (Journal of Laws No. 75, item 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: Building installation elements project III. sem.8.summer 2024/25, PG_00055680 - Moodle ID: 45303 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=45303
Example issues/ example questions/ tasks being completed	Provision of the required technical rooms in the building. Providing space for the distribution (vertical and horizontal) of mechanical ventilation ducts. Preparation of a drawing of land development with the designation of connections to installation networks. Execution of a descriptive part on solutions to ensure the implementation of technical - installation elements in the building.	
Work placement	Not applicable	

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