GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Building installation elements project II. Energy project of the building, PG_00061575		
Field of study	Architecture		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2025/2026
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	6	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department Of Technical Fundamentals Of Architectural Design -> Faculty Of Architecture -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. arch. Michał Kwasek	
	Teachers		

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	15.0	30.0	0.0	45

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	45	5.0	25.0	75

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_U02] is able to design an architectural object or a simple urban complex that meets the aesthetic and technical requirements	Ability to effectively design buildings, taking into account the optimal arrangement of installations inside the building, ensuring both functionality and architectural aesthetics. Knows how to verify the correctness of the adopted design solutions in terms of the feasibility of building installations in the building.	[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject
[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 of 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 into architectural design, ensuring harmonious and effective collaboration with other industry professionals. Knowledge of current legislation and procedures necessary for building projects, including installation issues.	[SW3] Assessment of knowledge contained in written work and projects

<table>
<tr><td>Subject contents</td><td>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
- mechanical ventilation in the building.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>exercises task evaluation</td><td>100.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>Ustawa Prawo Budowlane 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)</td></tr><tr><td>Supplementary literature</td><td>Borysiuk S., Sanitarno-higieniczne zasady projektowania zakładów gastronomicznych i obiektów handlowych (miejsc obrotu) z artykułami żywnościowymi, opracowanie. PZITS, Warszawa 1999.</td></tr><tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>Develop a survey of the systems present in the building.

Securing required technical rooms in the building.

Provide space for distribution (vertical and horizontal) of mechanical ventilation ducts.</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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