GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Building installation elements project, PG_00052665		
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

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.	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation
[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

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	*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)
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:

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