GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Building Installations for Architects, PG_00067339		
Field of study	Architecture		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2025/2026
Education level	second-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	1	Language of instruction	English
Semester of study	1	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department Of Urban Design And Regional Planning -> Faculty Of Architecture -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. arch. Roman Ruczyński	
	Teachers	dr inż. arch. Roman Ruczyński	

Lesson types and methods of instruction

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

The aim of the course is to strengthen the knowledge of technical aspects of designing architecture - installations systems inside and outside the building. Aside it is concerned on pro-environmental solutions.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U02] is able to use interdisciplinary knowledge and skills acquired during studies to design a complex architectural object or urban complex that meets the aesthetic and technical requirements, creating and transforming space and giving it new values	Students are able to implement technical solutions ensuring comfort and safety in the building. Is aware of spatial requirements and potential conflicts with buildings architecture and structure.	[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject
[K7_W01] knows and understands construction, building and engineering issues related to building design; principles, solutions, constructions and building materials used in performing complex engineering tasks in the field of architectural and urban design	Students understand the requirements related to installation technical issues and seeks solutions guided by ecological design principles.	[SW3] Assessment of knowledge contained in written work and projects

Subject contents

1. Water supply system.
2. Sanitary systems.
3. Storm water and drainage systems.
4. Gas installation.5. Ventilation system.
6. Building heating system.
7. Electric power and electrotechnical installations.

Prerequisites and co-requisites

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>final design - pro-environment solutions</td><td>100.0%</td><td>40.0%</td></tr>
<tr><td>final design - preserving architectural values</td><td>0.0%</td><td>30.0%</td></tr>
<tr><td>final design - correctness and relevance of solutions</td><td>100.0%</td><td>30.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Required reading of selected parts of polish regulations:

1. Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie (Dz.U.2019.0.1065 t.j.)

2.Rozporządzenie Ministra Spraw Wewnętrznych i Administracji z dnia 7 czerwca 2010 r. w sprawie ochrony przeciwpożarowej budynków, innych obiektów budowlanych i terenów (Dz.U.2010.109.719).

3. Rozporządzenie Ministra Spraw Wewnętrznych i Administracji z dnia 24 lipca 2009 r. w sprawie przeciwpożarowego zaopatrzenia w wodę oraz dróg pożarowych (Dz.U.2009.124.1030)</td></tr>
<tr><td>Supplementary literature</td><td>brak</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">1. Architectural and ecological aspects of designing ventilation and air conditioning systems.
2. Issues of roof drainage, terraces and water retention.
3. Pro-environmental solutions and aspects of installation systems.
4.Installation systems and the comfort of buildings and premises.</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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