GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	History of building structures, PG_00072992		
Field of study	Technical Physics		
Date of commencement of studies	February 2026	Academic year of realisation of subject	2026/2027
Education level	second-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	e-learning
Year of study	1	Language of instruction	Polish
Semester of study	2	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Engineering Structures -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Marcin Abramski	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	0.0	0.0	30

E-learning hours included: 30.0

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	2.0	18.0	50

Subject objectives

Presenting construction understood as a field of technology in a historical and cultural context. Emphasis on building structures.

Showing the social values of caring for historic buildings. Familiarizing listeners with contemporary techniques for strengthening historic building structures.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	The student is able to recognize the age of building monuments based on the type of construction used, building material or architectural style.	[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information
[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	The student knows the connections between historical conditions and the characteristics of buildings. These conditions include: available building materials and technologies, culture, and design techniques.	[SW1] Assessment of factual knowledge
[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	The student appreciates the role of built monuments in creating the cultural awareness of society and understands the need for social care for the maintenance of these monuments.	[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness

<table>
<tr><td>Subject contents</td><td>Course content – lecture

1. Building Disasters: What Do They Teach Us?
2. Repair and Strengthening of Historic Structures
3. Monuments of Bridge Engineering
4. History of Bridge Structures
5. History of Concrete Structures
6. Architectural Styles Throughout History. Selected Architectural Monuments
7. How Did They Build It? Historic Buildings of the World
8. Historic Building Structures
9. Unusual Building Structures
10. History of Large-panel Construction
11. History of Cast Iron Structures
12. History of Steel Structures
13. History of Aluminum Structures
14. Superstitions and Customs in Construction</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>Written test (30-45 min.) at the end of the semester</td><td>60.0%</td><td>100.0%</td></tr>
<tr><td>Giving a 15-minute multimedia presentation during the semester (for a maximum of 12 students)</td><td>60.0%</td><td>0.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>1. Koch Wilfried: Style w architekturze : arcydzieła budownictwa europejskiego od antyku po czasy współczesne. Przekł. z niem. Waldemar Baraniewski i in. Wyd. Weltbild, Warszawa, 2011.
2. Affelt Waldemar J: Dziedzictwo w budownictwie albo O obiektach budowlanych jako dobrach kultury ksiąg dziesięć. Wyd. Politechniki Gdańskiej. Gdańsk, 1999.
3. Krassowski Witold: Dzieje budownictwa i architektury na ziemiach Polski. Wyd. Arkady, Warszawa 1989.</td></tr>
<tr><td>Supplementary literature</td><td>1. Proksa Michał: Dzieje architektury i budownictwa w Polsce do połowy XVIII wieku: podręcznik dla studentów architektury, budownictwa i inżynierii środowiska. Oficyna Wydawnicza Politechniki Rzeszowskiej, 2023
2. Sosnowski Oskar, Świechowski Zygmunt, Zachwatowicz Jan: Dzieje budownictwa w Polsce. Wydawnictwo Naukowe PWN. Warszawa, 1964.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>Identify the age of a building monument, taking into account the type of construction used in it, the building material or the architectural style.
Present a given architectural style multimedially (15 min.): the genesis of its creation, characteristic features, examples of buildings.
Present a selected building monument from our region multimedially (15 min.): its history, construction, possible reconstructions, its possible connection with culture.</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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