



Subject card

Subject name and code	History of building structures, PG_00066592						
Field of study	Mathematics						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
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	dr hab. inż. Marcin Abramski dr inż. Dariusz Kowalski dr hab. inż. Maciej Niedostatkiwicz dr inż. Paweł Piotrkowski dr hab. inż. Krzysztof Żółtowski					
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: 0.0						
	eNauczanie source addresses: Moodle ID: 44460 Historia budownictwa https://enauczanie.pg.edu.pl/moodle/course/view.php?id=44460						
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_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		
	[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		

Subject contents	<p>Course content – lecture</p> <ol style="list-style-type: none"> 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 											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Subject passing criteria</th> <th style="width: 30%;">Passing threshold</th> <th style="width: 30%;">Percentage of the final grade</th> </tr> </thead> <tbody> <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> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Written test (30-45 min.) at the end of the semester	60.0%	100.0%	Giving a 15-minute multimedia presentation during the semester (for a maximum of 12 students)	60.0%	0.0%
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Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Koch Wilfried: <i>Style w architekturze : arcydzieła budownictwa europejskiego od antyku po czasy współczesne</i>. Przekł. z niem. Waldemar Baraniewski i in. Wyd. Weltbild, Warszawa, 2011. 2. Affelt Waldemar J: <i>Dziedzictwo w budownictwie albo O obiektach budowlanych jako dobrach kultury ksiąg dziesięć</i>. Wyd. Politechniki Gdańskiej. Gdańsk, 1999. 3. Krassowski Witold: <i>Dzieje budownictwa i architektury na ziemiach Polski</i>. Wyd. Arkady, Warszawa 1989. 										
	Supplementary literature	<ol style="list-style-type: none"> 1. Proksa Michał: <i>Dzieje architektury i budownictwa w Polsce do połowy XVIII wieku: podręcznik dla studentów architektury, budownictwa i inżynierii środowiska</i>. Oficyna Wydawnicza Politechniki Rzeszowskiej, 2023 2. Sosnowski Oskar, Świechowski Zygmunt, Zachwatowicz Jan: <i>Dzieje budownictwa w Polsce</i>. Wydawnictwo Naukowe PWN. Warszawa, 1964. 										
	eResources addresses											
Example issues/ example questions/ tasks being completed	<p>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.</p>											
Practical activities within the subject	Not applicable											

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