GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Construction Project V, PG_00055726		
Field of study	Architecture		
Date of commencement of studies	October 2021	Academic year of realisation of subject	2024/2025
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	4	Language of instruction	Polish
Semester of study	8	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Technical Fundamentals of Architectural Design -> Faculty of Architecture		
Name and surname of lecturer (lecturers)	Subject supervisor	mgr inż. arch. Joanna Wojtas	
	Teachers	mgr inż. arch. Joanna Wojtas dr inż. arch. Marek Sztafrowski	

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	2.0	18.0	50

Subject objectives

Expanding knowledge in the field of technology in building construction. Conducting analyses of structural and building solutions. Selecting a solution. Presenting selected solutions.

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	Is able to indicate technical aspects in an architectural and construction project.	[SU5] Assessment of ability to present the results of task
[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	Knows and understands technical issues requiring solutions in a building. Is able to determine the assumptions for the project that are important for technical aspects and their mutual relationships with the architecture of the building. Is able to analyze the design situation and provide indicated technical solutions.	[SW3] Assessment of knowledge contained in written work and projects

<table>
<tr><td>Subject contents</td><td>Technical revision in 4 topics:

1. Walls;

2. Ceilings;

3. Roofs;

4. Foundations.

Specialist design consultations in the field of technical and construction solutions for the designed building. In this scope, the most important technical topics will be taken up depending on the design situation, e.g. building structure, facade solutions, layer arrangements for partitions 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>Presentation of solutions</td><td>50.0%</td><td>25.0%</td></tr>
<tr><td>Preparation for consultation</td><td>50.0%</td><td>50.0%</td></tr>
<tr><td>Notes from the revision lessons</td><td>0.0%</td><td>25.0%</td></tr>
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</td></tr>
<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>

Z. Mielczarek, " Nowoczesne konstrukcje w budownictwie ogólnym", Arkady, 2001;
W. Starosolski, "Konstrukcje żelbetowe według PN-B-03264: 2002 i Eurocodu 2", wydanei 10 rozszerzone, Tom I, II i III, PWN, 2006;
A. Rawska-Skotniczny, "Obciążenia budynków i konstrukcji budowlanych według Eurocodów", PWN, 2013 i 2014;
H. Michalak, "Garaże wielostanowksikowe", Arkady 2009;
A. Biegus, "Stalowe budynki halowe", Arkady, 2003;
E. Schunck, H. Jochen Oster, R. Barthel, K. Kießl, Atlas dachów Dachy spadziste, mdm, 2005, ISBN 8392160002;
Structure for Architects, Taylor & Francis Ltd, sierpień 2019, ISBN 9781138554382;
Sandaker, Eggen, Arne P., Cruvellier, Mark R., Structural Basis of Architecture, Taylor & Francis Ltd, 2019, ISBN 9781138651999;
Chudley Roy, Greeno Roger, Kovac Karl, Chudley and Greeno's Building Construction Handbook, Taylor & Francis Ltd, 2023;
Philip Garrison, Basic Structures, John Wiley & Sons Inc, 2016;
Edward Allen, Patrick J. RandInc, Architectural Detailing - Function, Constructibility, Aesthetics 3e, John Wiley & Sons , 2016, ISBN 1118881990;
Mario Salvadori, Why Buildings Stand Up, WW Norton & Co, 1991;
Andrew Watts, Modern Construction Handbook, Birkhauser, 2022;

</td></tr>
<tr><td>Supplementary literature</td><td>

Hermann Kaufmann, Stefan Krötsch, Stefan Winter, Manual of Multistorey Timber Construction, De Gruyter, 2022;
Thomas Herzog, Roland Krippner, Werner Lang, Facade Construction Manual, De Gruyter, 2017;
Wolfgang Huß, Matthias Kaufmann, Konrad Merz, Building in Timber - Room Modules, Detail, 2019;
Anne Niemann, Stefan Torno, Building with Hardwood, De Gruyter, 2021;
Werner Lang, Stefan Winter, Hybrid Construction - Timber External Walls, Detail, 2022

</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:
Projekt elementów konstrukcyjnych II 2024/25 - Moodle ID: 45603
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=45603</td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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