GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Concrete Structures Seminar , PG_00045885		
Field of study	Civil Engineering		
Date of commencement of studies	February 2024	Academic year of realisation of subject	2024/2025
Education level	second-cycle studies	Subject group	Optional 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	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Concrete Structures -> Faculty of Civil and Environmental Engineering		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Krystyna Nagrodzka-Godycka	
	Teachers	prof. dr hab. inż. Krystyna Nagrodzka-Godycka dr inż. Marek Wesołowski	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	0.0	30.0	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	5.0	40.0	75

Subject objectives

Study the latest issues of research in the field of reinforced concrete and prestressed structures carried out in foreign scientific centers, which are extensions of knowledge in the field of semester lectures.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W15] has deep and adequate knowlege of civil engineering, within offered specialization and profile	The student acquires practical skills in the field of concrete structures at an advanced level	[SW1] Assessment of factual knowledge
[K7_K02] Rocognizes the significance of knowledge in solving cognitive and practical problems; reliably evaluates results of his own and team research	The student is prepared to analyze and discuss issues in the field of concrete structures, is able to critically assess the effects of scientific research in this field	[SK4] Assessment of communication skills, including language correctness
[K7_W02] knows principles of analysis, design and dimensioning of complex constructions and its elements	The student is prepared to analyze and dimension complex concrete structures in terms of durability and load bearing capacity	[SW2] Assessment of knowledge contained in presentation
[K7_U15] has advanced skills in civil engineering within offered specialization/profile	Based on the latest scientific and scientific-technical papers, the student is prepared to solve advanced issues of complex building structures in excess of existing standards and calculation procedures	[SU3] Assessment of ability to use knowledge gained from the subject

Subject contents

Review of current scientific and research works in the aspect of provisions for the design of reinforced concrete and prestressed structures based on foreign current scientific and technical literature.

Review of the latest technologies and materials on the example of structures under construction

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>asking questions in the discussion</td><td>50.0%</td><td>30.0%</td></tr>
<tr><td>multimedia presentation</td><td>50.0%</td><td>70.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>The current journal papers:

ACI Structural Journal, Concrete International, Structural Engineering International, Structural Concrete, Beton und Stahlbetonbau, Bauingenieur</td></tr>
<tr><td>Supplementary literature</td><td>fib MC2010 for Concrete Structures</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:
Seminarium z konstrukcji betonowych 2024 2025 - Moodle ID: 41479
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=41479</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2"></td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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