



Subject card

Subject name and code	, PG_00069274						
Field of study	Budownictwo ogólne III						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Building Structures and Material Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Łukasz Skarżyński				
	Teachers		dr hab. inż. Łukasz Skarżyński				
			dr inż. Krzysztof Drąg				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	15.0	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	The aim of the course is to familiarize students with prefabricated structures, as well as with structural elements under dynamic and cyclic loading.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_U06] Conduct engineering activities in civil engineering subject area, using and applying practical knowledge and understanding of materials, equipment and tools, processes and technologies.	Student has general knowledge in the subject area.	[SU1] Ocena realizacji zadania [SU2] Ocena umiejętności analizy informacji [SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu [SU4] Ocena umiejętności korzystania z metod i narzędzi [SU5] Ocena umiejętności zaprezentowania wyników realizacji zadania
	[K6_W07] Understand the investment's impact on the environment and the interrelationships and dependencies between the building structure and the natural environment	Student has general knowledge in the subject area.	[SW2] Ocena wiedzy zawartej w prezentacji
	[K6_W06] Demonstrates practical knowledge and understanding of materials, devices and tools, processes and technologies in the field of civil engineering (and their limitations).	Student has general knowledge in the subject area.	[SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym
	[K6_U07] Design and build engineering structures in a sustainable manner, with care for the natural environment and a minimum carbon footprint	Student has general knowledge in the subject area.	[SU2] Ocena umiejętności analizy informacji
	[K6_K01] Is aware of the key aspects of professional, ethical and social responsibility related to management, business operation, decision making and opinion formulation in civil engineering.	Student has general knowledge in the subject area.	[SK1] Ocena umiejętności pracy w grupie [SK3] Ocena umiejętności organizacji pracy
Subject contents	Course content – lecture 1. Discussion of prefabricated systems used in Poland in the 1960s, 1970s, and 1980s. 2. Discussion of issues related to the analysis of structures under dynamic loads. 3. Discussion of issues related to the analysis of structures under cyclic loads.		
	Course content – project 1. Analysis of selected structural elements of precast reinforced concrete halls. 2. Analysis of selected structural elements subjected to dynamic loads. 3. Analysis of selected structural elements subjected to cyclic loads.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	50.0%	40.0%
	Colloquium	50.0%	60.0%
Recommended reading	Basic literature		
	1. Applicable building law provisions. 2. Applicable standards. 3. Runkiewicz, L. i Plechawski, S. Ocena stanu technicznego sprężonych dźwigarów dachowych w eksploatowanych obiektach budowlanych. Przegląd budowlany, 11/2008. 4. Sieńko, R. i Szydłowski, R. Badanie kablobetonowych dźwigarów dachowych KBOS-18 w trakcie symulacji korozyjnego pęknięcia ciągłych. Badania materiałów budowlanych i konstrukcji inżynierskich. 5. Katalog Typowych Rozwiązań do Projektowania Prefabrykowanych Hal Przemysłowych. Zeszyt 1 do 8. Centralny Ośrodek Badawczo Projektowy Budownictwa Przemysłowego.		

	Supplementary literature	Not applicable.
	eResources addresses	
Example issues/ example questions/ tasks being completed	1. Stress analysis of selected structural elements of a prefabricated reinforced concrete hall. 2. Foundation dimensioning for dynamic loads.	
Practical activities within the subject	Not applicable	

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