GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Seminar on Structural Mechanics, PG_00041321		
Field of study	Civil Engineering		
Date of commencement of studies	February 2025	Academic year of realisation of subject	2025/2026
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	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Structural Mechanics Department -> Faculty of Civil and Environmental Engineering		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Agnieszka Tomaszewska	
	Teachers		

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	25.0	60

Subject objectives

This course prepares for individual research work in the field of Structural Analysis with a special emphasis on the preparation of MSc diploma thesis.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W02] knows principles of analysis, design and dimensioning of complex constructions and its elements	The student provides a presentation on the analysis, construction and dimensioning of a broad field of concrete, steel, timber, masonry and composite structures	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation
[K7_W04] has knowledge on advanced strength of materials, modeling and optimisation of materials and constructions; has knowledge of fundamentals of Finite Element Method and general nonlinear analysis of engineering constructions and systems	The student analyses advanced problems of strength of materials, has a background on FEM and nonlinear engineering analysis, preparing a dedicated presentation.	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation
[K7_K04] understands the necessity of dissemination civil engineering knowlege in the society and to suport the proffesional ethos of a civil engineer	The student is able to prepare and deliver a presentation on structural mechanics, based on literature.	[SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice

Subject contents

Student elaborates the literature review, formulates the specific aims of the thesis and writes the draft of the thesis.

Prerequisites and co-requisites

Knowledge based on study programme

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
An assessment by the lecturer	60.0%	100.0%

Recommended reading

Basic literature	Books, hand-books, research reports and journal papers related to Structural Analysis
Supplementary literature	Guidelines for writing a master thesis in structural engineering
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	Presentation and discussion of the selected scientific paper from the international journal. Presentation of scope of the thesis/draft of the thesis.
Work placement	Not applicable

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