



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 knowledge in the society and to support the professional 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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