

Subject card

Subject name and code	Seminar on Structural Mechanics, PG_00041321								
Field of study	Civil Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
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	Subject supervisor		dr hab. inż. Ireneusz Kreja						
of lecturer (lecturers)	Teachers	eachers		dr hab. inż. Ireneusz Kreja					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	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 classes includ plan		Participation i consultation h		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		presentation on the analysis,			[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 An assessment by the lecturer		Passing threshold 60.0%			Percentage of the final grade 100.0%			
Recommended reading	Basic literature		Books, hand-books, research reports and journal papers related to Structural Analysis						
	Supplementary literat	Guidelines for writing a master thesis in structural engineering							
	eResources addresse	Adresy na platformie eNauczanie: Seminarium z Mechaniki Konstrukcji - 2023/2024 - Moodle ID: 21055 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=21055							
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	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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