

## Subject card

Subject name and code	WIND AND PARASEISMIC ENGINEERING, PG_00041320								
•	Civil Engineering								
Field of study									
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/	2024/2025		
Education level	second-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
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	Katedra Wytrzymałości Materiałów -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor dr inż. Bartosz Sobczyk								
of lecturer (lecturers)	Teachers		mgr inż. Błażej Meronk						
			dr inż. Bartosz Sobczyk						
			dr inż. Tomasz Ferenc						
			di inz. Tulliasz i elellü						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	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		5.0		40.0		75	
Subject objectives	The students learn basics and selected topics of wind and Earthquake Engineering.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[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 students learn basics and selected topics of wind and Earthquake Engineering.			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
	[K7_W03] has knowledge of Continuum Mechanics, knows rules of static analysis, stability and dynamics of complex rod, shell and volume structures, both in linear and basic nonlinear regime		The students learn basics and selected topics of wind and Earthquake Engineering.			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
Subject contents	Basics and selected topics of wind and Earthquake Engineering are presented.								
Prerequisites and co-requisites	Structural Mechanics, Dynamics of Structures								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	Presentation of wind or seisimic engineering aspects		60.0%			60.0%			
	Evaluation of student projects		60.0%			40.0%			

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Recommended reading	Basic literature	Rucka M., Wilde K.: Dynamika Budowli z przykładami w środowisku Matlab®. Wydawnictwo Politechniki Gdańskiej, Gdańsk 2008.     Chmielewski T., Zembaty Z.: Podstawy dynamiki budowli. Arkady, 1998.     Flaga A.: Inżynieria wiatrowa. Podstawy i zastosowania, Arkady, 2008.
	Supplementary literature	Chopra A.: Dynamics of structures. Theory and Applications to Earthquake Engineering, Prentice-Hall, 1995.      Simiu E., Scanlan R.: Wind Effects on Structures, John Wiley and Sons, 1996.
	eResources addresses	Adresy na platformie eNauczanie: Inżynieria Wiatrowa i Parasejsmiczna 2024/2025 - Moodle ID: 41044 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=41044
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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