

Subject card

Subject name and code	WIND AND PARASEISMIC ENGINEERING, PG_00041320									
Field of study	Civil Engineering									
Date of commencement of	February 2025		Acadomio	Academic year of				2025/2026		
studies	T Coludity 2020		Academic year of realisation of subject			2025/2026				
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 Wytrzymałoś	Katedra Wytrzymałości Materiałów -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor dr inż. Bartosz Sobczyk									
of lecturer (lecturers)	Teachers									
Lesson types and methods	Lesson type	Lecture	Tutorial	torial Laboratory Project S		Seminar	SUM			
of instruction	Number of study hours	15.0	0.0	0.0	15.0		0.0	30		
	E-learning hours inclu	uded: 0.0			•		•			
Learning activity and number of study hours	Learning activity	Participation i classes including		Participation i consultation h	articipation in nsultation hours		udy	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									
J	[K7_W03] has knowledge of		The students learn basics and			[SW1] Assessment of factual				
	Continuum Mechanics, knows rules of static analysis, stability and dynamics of complex rod, shell and volume structures, both in linear and basic nonlinear regime		selected topics of wind and Earthquake Engineering.			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 students learn basics and selected topics of wind and Earthquake Engineering.			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation				
Subject contents	Basics and selected topics of wind and Earthquake Engineering are presented.									
Prerequisites and co-requisites	Structural Mechanics, Dynamics of Structures									
Assessment methods	Subject passin	Passing threshold Percentag				centage of the	ntage of the final grade			
and criteria Evaluation of stu		t projects				40.0%				
	Presentation of wind or seisimic engineering aspects		60.0%			60.0%				
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.							

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	Supplementary literature	Chopra A.: Dynamics of structures. Theory and Applications to Earthquake Engineering, Prentice-Hall, 1995.				
		2. Simiu E., Scanlan R.: Wind Effects on Structures, John Wiley and Sons, 1996.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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