



Subject card

Subject name and code	, PG_00061957						
Field of study	Environmental Engineering						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	second-cycle studies		Subject group		Obligatory subject group in the field of study		
Mode of study	Part-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Technical Fundamentals of Architectural Design -> Faculty of Architecture -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Andrzej Kulowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	10.0	10.0	0.0	0.0	0.0	20
	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	20		3.0		29.0	52
Subject objectives	Awareness of noise hazard in environmental engineering issues						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U08] is able to assess risks in the implementation of engineering projects and implement appropriate safety rules		is able to assess threats when implementing engineering projects and implement appropriate safety rules		[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
	K7_W05		has knowledge in the field of construction; technology and organization of industry works or the impact of construction investments on the environment		[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects		
Subject contents	Course content – lecture 1. The impact of noise and vibration on humans. 2. Subjective and objective assessment of noise and vibration. 3. Sound evaluation parameters, sound spectrum, decibel. 4. European Union directives and harmonization of regulations in EU countries regarding environmental protection against noise. 5. Legal status regarding the permissible level of noise and vibrations in the environment. 6. Noise propagation in open areas. Transport, industrial and household noise. 7. Noise screens 8. Noise from wind farms. 9. Aircraft noise, restricted use area. 10. Acoustic climate parameters and standards. Acoustic zones in cities. 11. Noise maps, using noise maps in planning activities. 12. Acoustics in planning documents - Environmental Survey, Project Information Card, Local Spatial Development Plan. 13. Noise protection program in Tricity. 14. Elements of building acoustics - protection of buildings against external noise						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
			60.0%		100.0%		
Recommended reading	Basic literature		nie dotyczy				
	Supplementary literature		Nie dotyczy				

	eResources addresses	
Example issues/ example questions/ tasks being completed	nie dotyczy	
Practical activities within the subject	Not applicable	

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