



Subject card

Subject name and code	Noise Control, PG_00060053						
Field of study	Environmental Engineering						
Date of commencement of studies	February 2023	Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies	Subject group			Obligatory subject group in the field of study		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	3	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Technical Fundamentals of Architecture Design -> Faculty of Architecture						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Andrzej Kulowski				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	0.0	0.0	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		19.0	54
Subject objectives	Awareness of noise hazard in environmental engineering issues						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K7_W05		has knowledge in the field of construction; technology and organization of industry works or the impact of construction investments on the environment		[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge		
	[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		[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	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 Report, 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		Adresy na platformie eNauczenie: Akustyka Architektoniczna 2023/24 - Moodle ID: 33208 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=33208				
Example issues/ example questions/ tasks being completed							

Work placement	Not applicable
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