

Subject card

Subject name and code	, PG 00060394								
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Field of study	Spatial Development								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		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			1.0			
Learning profile	general academic pro	neral 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. arch. Piotr Lorens						
	Teachers	prof. dr hab. inż. Andrzej Kulowski							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	0.0		0.0	15	
	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	15		0.0		0.0		15	
Subject objectives	Awareness of noise hazard in spatial planning issues							•	
Knowledge about the commitment of local authorities to consider noise protection when planning, including poland's international obligations in this regard.								ng, including	
	Understanding the relationship between the extent of noise hazard to the site and the degradation of the site's function.								
	Ability to determine the scope of studies on environmental hazards associated with noise and use them								

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K6_U05] correctly interprets natural phenomena, and when formulating and solving engineering tasks related to spatial management, notices their systemic and non-technical aspects related to the natural environment	He analyzes studies in the field of spatial management with the awareness of legal regulations regarding the threat to the environment by noise. He understands and is able to apply the regulations on acoustic environmental protection. He understands the purposefulness of changes in the regulations on environmental acoustics in the context of development trends in the field of spatial planning and related disciplines. Can track changes in the legal status regarding environmental acoustics.	[SU3] Assessment of ability to use knowledge gained from the subject				
	[K6_W04] has basic knowledge in the field of pro-ecological design and knows the principles of sustainable development of cities and regions; has knowledge of the natural foundations of spatial management and the impact of natural conditions on the processes of economic development on a local, regional and national scale	He analyzes studies in the field of spatial management with the awareness of legal regulations regarding the threat to the environment by noise. He understands and is able to apply the regulations on acoustic environmental protection. He understands the purposefulness of changes in the regulations on environmental acoustics in the context of development trends in the field of spatial planning and related disciplines. Can track changes in the legal status regarding environmental acoustics.	[SW1] Assessment of factual knowledge				
Subject contents	1. Impact of noise and vibration on humans. 2. Subjective and objective assessment of noise and vibration. 3. Parameters of sound evaluation, sound spectrum, decibel. 4. European Union directives and harmonization of regulations in EU countries in the field of environmental protection against noise. 5. Legal status as regards the permissible level of noise and vibrations in the environment. 6. Noise propagation in open space. Transport, industrial and domestic noise. 7. Acoustic screens. 8. Noise of wind electro-farms. 9. Airplane noise, limited use area. 10. Parameters and standards of acoustic climate. Acoustic zones of cities. 11. Noise maps, the use of noise maps in planning activities. 12. Acoustics in planning documents - Environmental report, Project Information Card, Local Spatial Development Plan. 13. Noise protection program in the Tri-City. 14. Elements of building acoustics - building protection against external noise.						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	test	60.0%	100.0%				
Recommended reading	Basic literature	Sadowski J., "Podstawy akustyki urbanistycznej". Arkady, Warszawa 1982 Sadowski J., "Akustyka architektoniczna". PWN, Warszawa 1976. Sadowski J., "Akustyka w urbanistyce, architekturze i budownictwie". Arkady, Warszawa 1971.					
	Supplementary literature Ciesielski J., Kawecki J., Maciąg E., Ocena wpływu wibracji na buc i ludzi w budynkach. Instytut Techniki Budowlanej, Warszawa 1993						
	eResources addresses Adresy na platformie eNauczanie:						
Example issues/	Give an example of the scope of expertise regarding the assessment of environment acoustic hazards .						
example questions/ tasks being completed	Explain the relationship between the degree of terrain noise hazard and the degradation of terrain functions.						
NA 1 1	List sample project studies on environmental acoustics.						
Work placement	Not applicable						

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