

Subject card

Subject name and code	Acoustics project, PG_00052803							
Field of study	Architecture							
Date of commencement of studies	October 2022		Academic year of realisation of subject		2024/2025			
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study 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	3		Language of instruction			Polish		
Semester of study	5		ECTS credits			1.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Technical Fundamentals of Architecture Design -> Faculty of Architecture							
Name and surname	Subject supervisor	mgr inż. arch. Bogumiła Kapica						
of lecturer (lecturers)	Teachers	prof. dr hab. inż. Andrzej Kulowski						
			mgr inż. arch. Bogumiła Kapica					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	0.0	0.0	15.0	0.0		0.0	15
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	g activity Participation in classes include plan				Self-study		SUM
	Number of study hours	15	2.0		8.0		25	
Subject objectives	To acquaint the student with the mechanism of sound and vibration transmission in building structures and the propagation of noise in the environment. To acquaint the student with the principles of soundproofing of the building and with the form of room acoustics.							
Learning outcomes	Course out	Subject outcome			Method of verification			
	presentation of your own design concepts in the field of architecture and urban planning, meeting the requirements of a professional record appropriate for		The student has knowledge of the ways and mechanism of sound and vibration transmission in building structures and the propagation of noise in the field. The student knows the mechanism of sound propagation in rooms.			[SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_W01] knows and understands construction problems, building and engineering issues related to building design; principles, solutions, constructions and building materials used in simple engineering tasks in the field of architectural and urban design		The student is aware of the importance of acoustics for the function of the room and learns about the possibilities of influencing its acoustic properties.			[SW1] Assessment of factual knowledge		
Subject contents	Getting to know the operation of the SABINE computer program Getting to know the acoustic properties of building and finishing materials stored in the database Gase study: study of a sample room, making sample calculations Choosing a room, developing the proportions and shape of the interior, ceiling and wall profile, auditorium layout, escape routes. Development of the arrangement of finishing materials. Calculation of acoustic parameters taking into account design recommendations. Preparation of the report entitled Acoustic guidelines for interior design							
Prerequisites and co-requisites								
Assessment methods	Subject passin	Passing threshold			Percentage of the final grade			
and criteria	Preparation of the fin	100.0%			100.0%			

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Recommended reading	Basic literature	Ozimek E.: Dźwięk i jego percepcja. Warszawa 2002, Wydawnictwo Naukowe PWN Everest A.: Podręcznik akustyki. Katowice 2004, Wydawnictwo Sonia Draga
	Supplementary literature	Sadowski J.: Akustyka w urbanistyce, architekturze i budownictwie. Arkady, Warszawa 1971 Sadowski J.: Podstawy akustyki urbanistycznej. Arkady, Warszawa 1981
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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