



Subject card

Subject name and code	Acoustics project, PG_00052803						
Field of study	Architecture						
Date of commencement of studies	October 2021		Academic year of realisation of subject		2023/2024		
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 Architectural Design -> Faculty of Architecture						
Name and surname of lecturer (lecturers)	Subject supervisor		mgr inż. arch. Bogumiła Kapica				
	Teachers		mgr inż. arch. Bogumiła Kapica				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	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	Participation in didactic classes included in study plan		Participation in consultation hours		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 outcome		Subject outcome		Method of verification		
	[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		
	[K6_U03] is able to prepare a graphic, written and oral presentation of your own design concepts in the field of architecture and urban planning, meeting the requirements of a professional record appropriate for architectural and urban design		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		
Subject contents	1. Getting to know the operation of the SABINE computer program 2. Getting to know the acoustic properties of building and finishing materials stored in the database 3. Case study: study of a sample room, making sample calculations 4. Choosing a room, developing the proportions and shape of the interior, ceiling and wall profile, auditorium layout, escape routes. 5. Development of the arrangement of finishing materials. Calculation of acoustic parameters taking into account design recommendations. 6. Preparation of the report entitled Acoustic guidelines for interior design						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Preparation of the final study		100.0%		100.0%		

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: PROJEKT AKUSTYCZNY 2023/24 - Moodle ID: 33502 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33502
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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