

Subject card

Subject name and code	Acoustics project, PG_00052803								
Field of study	Architecture								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
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	at the university		
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			1.0	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		prof. dr hab. inż. Andrzej Kulowski						
of lecturer (lecturers)	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	0.0	0.0	15.0	0.0		0.0	15	
	E-learning hours inclu			i		·			
Learning activity and number of study hours	Learning activity	earning activity Participation in classes include plan				Self-study SUM		SUM	
	Number of study hours	15		2.0		8.0 25		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_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			
	[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					[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 Getting to know the acoustic properties of building and finishing materials stored in the database Case 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 final study		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	Podstawowe https://enauczanie.pg.edu.pl/moodle/enrol/index.php?id=25193 - Distance learning address: Architectural Acoustics - Moodle ID: 26193 Uzupełniające Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed				
Work placement	Not applicable			

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