

Subject card

Subject name and code	Acoustics project, PG_00052642								
Field of study	Architecture								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/	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 university			
Year of study	3		Language of instruction			English			
Semester of study	5		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Techn	tment of Technical Fundamentals of Architecture Design -> Faculty of Architec				hitecture			
Name and surname	Subject supervisor		prof. dr hab. inż. Andrzej Kulowski						
of lecturer (lecturers)	Teachers		prof. dr hab. i	dr hab. inż. Andrzej Kulowski					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	15.0	0.0		0.0	15	
	E-learning hours inclu	uded: 0.0							
Learning activity and number of study hours	Learning 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. Acquainting the student with the principles of anti-sound and anti-vibration protection of the building and the environment, as well as shaping the acoustics of rooms.								
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 object and learns the possibilities of influencing its acoustic properties.			[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 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. of zerowaste architecture.			[SW1] Assessment of factual knowledge			
Subject contents	 Familiarization with the operation of the SABINE computer program Getting acquainted with the acoustic properties of building and finishing materials stored in the database Case study: study of an exemplary room, execution of exemplary calculations Selection of the room, development of the proportions and shape of the interior, the profile of the ceiling and walls, the layout of the auditorium, escape routes. Development of the layout of finishing materials. Calculation of acoustic parameters taking into account design recommendations. Preparation of a report on Acoustic guidelines for interior design. 								
Prerequisites and co-requisites									
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Data wydruku: 23.04.2024 19:50 Strona 1 z 2

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Study entitled Acoustic guidelines for the interior design of the auditorium	100.0%	100.0%			
Recommended reading	Basic literature	 Sadowski J.: Akustyka architektoniczna. PWN, Warszawa 1976 Kulowski A.: Akustyka sal - zalecenia projektowe dla architektów Wydawnictwo Politechniki Gdańskiej, Gdańsk 2011 				
	Supplementary literature	 Ciesielski, J. Kawecki, E. Maciąg: Ocena wpływu wibracji na budowle i ludzi w budynkach. Instytut Techniki Budowlanej, Warszawa 1993 Kulowski A.: Ćwiczenia projektowe z akustyki pomieszczeń z wykorzystaniem programu komputerowego "Sabine" (instrukcja laboratoryjna) 				
	eResources addresses	Podstawowe				
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=25193 - Address of distance classes: Akustyka Architektoniczna 2021/22 - Moodle ID: 25193.				
		Uzupełniające				
		Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Selection of the room to be developed from the list provided, determination of the shape and proportions of the room, selection and arrangement of finishing materials, preparation of the final study					
Work placement	Not applicable					

Data wydruku: 23.04.2024 19:50 Strona 2 z 2