

SPEECH INTELLIGIBILITY ASSESSMENT AT ARCHITECTURE JURY ROOMS IN DHAKA

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ABSTRACT

Speech intelligibility, the percentage of speech that a listener can understand is a prime factor during the architecture jury session. The paper analyses the acoustical quality of Jury rooms in the capital city of Bangladesh- Dhaka to recommend an achievable sonic environment for the design presentations. Jury room of Architecture department in Ahsanullah University of Science & Technology (AUST) has been selected as the case jury room to test the quality of speech intelligibility in two phases: Existing designed case room and Redesigned case room, by measuring the independent variables such as reverberation time, the percentage of syllable articulation and sound-to-noise ratio. The finding reveals that the existing situation is very much affected by the lack of sound diffusion all over the place and inappropriate sound pressure level, while the condition has been improved after redesigning the waffle ceiling. Finally, the study will recommend a recommendation for effective distribution of speech intelligibility in the internal space of the jury room.

KEYWORDS: Jury Room, Reverberation Time (RT), Diffusion of Sound, Sound-To-Noise Ratio (SNR), Sound Pressure Level

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