

ABSTRACT

When designing a room, acoustics comfort factor is often not taken into consideration so the result may be a disturbance to the activities taking place in the room. The measurement of acoustics parameter such as reverberation time, definition, and RASTI were done to evaluate the acoustics condition of TUCH building. Based on the field measurement result, the TUCH building is ineligible for speech auditorium. The reverberation time value is in the range of 0,4 until 13,7 seconds, D50 value is in the range of 1,6 % until 42,6 %, whereas the value of RASTI were included as bad category for speech. The simulation data of absorber installation at ceiling on TUCH building shows that the D50 value at the frequency of 250 Hz until 4000 Hz is eligible that is above 65 % and the RASTI value is in good category for speech. The diffuser installation at ceiling have not been able to improve the acoustics quality of TUCH building.

Keywords: *Reverberation Time, Definition, RASTI, Speech Auditorium*