

ABSTRACT

In this final project was conducted two important stages that is measurement and simulation using CATT Acoustics. The object of measurement in this final project is the eight floor auditorium of Tokong Nanas Building, Telkom University. Based on its function, the auditorium is categorized as a room for speech that is closely related to the delivery of information. Clear information depend of acoustics performance which appointed by the auditorium acoustic parameters. The acoustic parameters in the auditorium have a value of RT 1.16 s - 1.56 s, LL 5.8 dB, and STI 68% which means not accord the recommendation of room for speech. For this reason in this research do modifications through CATT Acoustics simulation by changing the material coefficient and position of the reflector and diffusor on the auditorium ceiling by used natural speech as sound source. From the simulation result stated that the use of natural speech with modification on the ceiling can not accord the recommendation of the room for speech.

Keywords: auditorium, objective acoustics parameters, reflector, diffusor, natural speech.