Abstract

Seat Location in a room can determine the clarity of sound that can be received by the listener. The closer distance between the location of the listener and the speaker, clearer of information the listener gets. In addition, the line of sight of the listener becomes one of the supporting factors in determining the clarity of speech received by the listener [1]. One of the design of the room in accordance with it is the design of the room with a high difference between the row bench. One of the rooms that have the design is the Multimedia Room located on the 2nd floor of the Bangkit Building. To determine the best seat location, it is necessary to evaluate acoustic performance in terms of acoustic parameters in terms of objective and subjective aspects. The acoustic parameters reviewed are Reverberation Time (RT), Speech Transmission Index (STI) and Noise Criteria (NC). The objective evaluation involves direct measurement while the subjective aspect involves the assessment of the questionnaire. Based on the direct measurement, the parameter values obtained include a RT with a value of 1.36 s, noise criteria with a value of 35 and STI with an average value of 74%. The results of the questionnaire stated that between the three measurement points used in the questionnaire, the 4th points were selected by the majority of respondents and as a reference to determine the best seat location. In addition, the correlation between the parameters that influence the selection of the 4th point as the best seat location is the correlation between STI and Overall. Based on the correlation also found that STI parameters affect the comfort of the respondent's hearing in the selection of 4th point as the best seat location.

Keywords : seat location, acoustic parameters, subjective parameters, questionnaire