

ABSTRACT

With a fairly thick wall condition and the number of buildings that block Graha Wiyata Cenduk Sudarijianto Building (Telkom University), furthermore students and lecturers in the Graha Wiyata Cenduk Sudarijianto Building causing the need for an increase in cellular quality in terms of capacity and scope to handle users in areas in in the building. The result of Initial Walk Test, SINR obtained -2.32 to 1.85 dB and RSRP obtained an a -108 to -106.88 dBm which shows the quality of the network in the building is poor.

In final Project this time will do Indoor Building Coverage Planning is done as a solution to the problem in the Graha Wiyata Cacuk Sudarijianto Building, with the first step of doing a Drive Test and Walk Test Before using Tems Pocket with the aim of knowing SINR and RSRP, then analyzing the results of the Drive Test and Walk Test using Map Info software..

From the simulation of indoor network design in Graha Wiyata Cacuk Building for simulation using 1.8 GHz Frequency, the results of SINR 21.82 to 24.19 dB and RSRP -63.6 to -56.45 dBm were obtained. The results obtained have reached the standart of operator parameters.

Keywords: *Indoor Building Coverage, LTE, RSRP dan SINR, Tems Pocket, Map Info.*