

ABSTRACT

Campus TV works to help all students get the latest information and important every day. Along with the many activities organized around the campus of Telkom University, campus TV role was essential to facilitate the students know the important information related to lectures, campus activities, latest news and information about other campuses. Previously, Campus TV has been implemented on Building Selaru, but for the transmission of data still use coaxial cable.

Based on this, it is necessary to design the Campus TV Network on the sender side that can meet the needs such as Live Streaming and Live Event on campus. In this Final Project will be done the design of Campus TV Network using WDS (Wireless Distribution System) network as the transmission medium.

From the design of campus TV network on the sender side that has been done, then generated a network of TV Campus based on WDS (Wireless Distribution Point) network that can display video streaming and live event on screen. From the results of testing the performance of the server is done by changing the quality of the video on the server with CPU Load nilau at 720 Pixels is 11% and Memory Usage 325 MB. Pengukuran MOS value is done by distributing questionnaires to 30 students of the Faculty of Applied Science on the results of output that has been displayed on TV campus.

Keywords: Campus TV, WDS (Wireless Distribution System), Web Server, Live Streaming, Live Event.