

ABSTRACT

The transmission medium is divided into several kinds began to use cables up without using cables. Many new innovations in the transmission media for example using light. As you well know that LEDs are now not only be used as a torch but also can be used as transmission media or media informing.

In this final project, has made the implementation of streaming radio using visible light communication. Streaming internet radio made using devices router TP-Link MR3020 and the output will be transmitted through the visible light communication system consisting of LEDs as a light to electrical converter and Photodiode as a modifier the electric to light. Through the implementation of these tools can be seen that the audio from internet streaming radio output can be transmitted using visible light communication.

The results of this final project can prove that the tools are designed able to send audio signals from radio streaming via visible light with a maximum distance of 300 cm in conditions indoor and 100 cm in conitions outdoor .

Keywords: Visible Light Communication, Audio, LED, Photodiode.