**ABSTRACT** 

Health monitoring is very important in the medical area because of the

presence of the monitoring system will help to monitor a person's health condition

in realtime. A good monitoring system is an effective monitoring system and can

facilitate the work of observers. One of the methods in the health monitoring system

is to use a wireless sensor network. In this final project, it is designed a wireless

sensor network for ECG (electrocardiogram) monitoring system using xbee RF

module.

The system consists of 3 sensor nodes, 2 routers, and a coordinator node.

Sensor node devices are designed to retrieve information of ECG signal by using

electrodes and ECG block device. Coordinator node in charge of collecting and

processing data. Nodes will be communicated wirelessly by using a mesh topology.

The output of this system has been able to show the results of the ECG signal

information in real time, which is the monitoring result from that three nodes.

Keywords

: ECG, WSN, xbee

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