VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM – 590014

K. L. E. SOCIETY'S

B. V. Bhoomaraddi College of Engineering & Technology, Hubli – 580031

(An Autonomous Institution)

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Report on

"CONTROLLING AIR CONDITIONER (TEMPERATURE AND AIRFLOW) USING WIRELESS SENSOR NETWORK"

Guide

Dr. Meena S. M

Submitted by

MR.KARTHIK S K	2BV10IS042
MS. MAHESHWARI M K	2BV10IS049
MR.SURAJ M HALAKATTI	2BV10IS106
MR.VINEETKUMAR PATIL	2BV10IS119

2013 – 2014

ABSTRACT

Our project Controlling air conditioner (temperature and airflow) uses wireless sensor network. The proposed system deals with the sensor technology to the control the system wherein there are n-number of sensors which sense the temperature, aggregates them and transmits the aggregated data to the gateway. Wheather sensor which can sense temperature, humidity and barometric pressure and uses IEEE standards 802.15.4 compliant radio. The information collected in the sensor is processed in iShell application, data is compared with the threshold value and control decisions are taken.

This work contrbutes towards saving of energy in high power air-conditioner and air-conditioner in public places like malls, railway station and etc. The scope of this project is ARM processor further this project is extended to less complex, less size and cost effective embedded system. Camera sensor can also be used to capture the images of people, analyze the crowd density and control the air-conditioner depending on the crowd density.