

# HEART BEAT RATE MONITORING

## USING SMART PHONE

Project work carried out at

### SIDDAGANGA INSTITUTE OF TECHNOLOGY

*(An Autonomous Institute affiliated to VTU, Belgaum)*

SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE AWARD OF  
BACHELOR OF ENGINEERING

IN

INFORMATION SCIENCE AND ENGINEERING

OF

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM

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**2014-2015**

## *Abstract*

In the era of internet of things, next new innovation in the field of smarter phones is for health monitoring use. A smart phone in our pocket makes us feel like “doctor is in our pocket”. A person having the heart disease needs constant monitoring of heart rate in order to provide emergency treatment.

We present a real time application as a radically new portable architectural solution for monitoring health issue related to heart disease. Integrating sensors together with the mobile phones can keep an eye upon our health. The idea is to come up with a technique which is uses a wireless sensor to measure the heart rate variability in real time with bluetooth enabled peer alerting service. Efficient and capable heart monitoring sensors senses the heart beats dynamically and sends to gateway using bluetooth, calculation and process performed by embedded microcontroller. Android based smart phone device acting as a mobiles gateway running the application and on certain beats per minute (bpm) threshold, it alerts the respective peers for hospitality. The great advantage of this project is nowadays everyone use smart phone for communication purpose. The same device can be made much smarter to monitor human health.