

# **Android Phone Operated Wireless Bell for Department**

**(HOD cabins or labs)**

## **ABSTRACT**

This project aims at designing android phone operated wireless bell for department use. The proposed system makes use of Bluetooth technology to communicate from Android phone operated at HOD's cabin to Laboratory for calling to staff members. The main objective of the project is to give important messages to the staff members without much manual efforts. Calling to any staff member or a peon within a short span of time is possible.

Android is a software stack for mobile devices that includes an operating system, middleware and key applications. Android boasts a healthy array of connectivity options, including Wi-Fi, Bluetooth, and wireless data over a cellular connections (for example, GPRS, EDGE and 3G). Android provides access to a wide range of useful libraries and tools that can be used to build rich applications. In addition, android includes a full set of tools that have been built from the ground up alongside the platform providing developers with high productivity and deep insight into their application.

The main controlling device of the whole system is Microcontroller. Bluetooth modem, buzzer, one red light and green light are interfaced to microcontroller unit. The message sent through predefined application from user Android mobile phone is received by the Bluetooth modem. Bluetooth modem feeds this information to microcontroller which horns a buzzer and gives the message by making one of the light ON. Red light is used to call Teacher or Lecturer and green light is used to call a peon. Microcontroller is loaded to perform this intelligent program written in Assembly Language Programming.

**BLOCK DIAGRAM:**

