

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
BELGAUM – 590010, KARNATAKA.**



**PROJECT REPORT  
ON**

**EMBEDDED BASED SPEED CONTROL OF AC  
MOTOR USING ZIGBEE TECHNOLOGY**

*Submitted in the partial fulfillment of the requirements for the award of degree in*

**BACHELOR OF ENGINEERING**

**IN**

**ELECTRICAL & ELECTRONICS**

**PROJECT ASSOCIATES**

REVANASIDDAPPA.B.H  
SAVIO JOSEPH.D  
SHIVAKUMAR.R.G.  
IMRAN.D.

4BD07EE030  
4BD07EE032  
4BD07EE034  
4BD08EE400

**PROJECT GUIDE**

**Dr.M.S.NAGARAJ**

M.Tech., Ph.D.

**HEAD OF THE DEPARTMENT**

**Dr.M.S.NAGARAJ**

M.Tech., Ph.D.



**JUNE-2011**



---

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
BAPUJI INSTITUTE OF ENGINEERING TECHNOLOGY  
DAVANGERE -577004, KARNATAKA, INDIA**

## **ABSTRACT**

This project deals with Speed control of Alternate current Motors. The speed control is achieved by using Zigbee Technology. Zigbee Technology is wireless technology. The main components of Zigbee are Zigbee transmitter and Receiver, it has low cost that allows the technology to be widely deployed in wireless control and monitoring applications. Secondly, the low power-usage allows longer life with smaller batteries. The Speed can be controlled over a wide range. The TRIAC based speed control is implemented. In this project an attempt is made to control the speed of 3-phase Induction Motor.