

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM**



A Project report on

**“REAL ECG MACHINE WITH DATA TRANSMISSION  
THROUGH TELEPHONE”**

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

**BACHELOR OF ENGINEERING**

In

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted By:

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## ABSTRACT

In this project we design a device, which will measure the minute electrical impulses that are present due to the action of the nerves of the heart muscle.

The controller will dial the stored number of the doctor using the DTMF dialer chip. The interface to this device is I2C protocol .Then the microcontroller will connect the amplified ECG signal to the telephone line.At the other end (doctor's computer room) similar device will receive this audio signals and connects to the computer.The normal PC oscilloscope will show the ECG waveforms.So using this project any doctor can configure his phone number in this device and can monitor his patients ECG report through the telephone line.Thus we can name this device as a “ REMOTE TELEPHONE DOCTOR “