

K.S.C.S.T. sponsored

AUTOMATED HELPING AID USING WIRELESS COMMUNICATION

**A Project Report Submitted in partial fulfillment of the requirements for the award of the
Degree of Bachelor of Engineering in Electronics and Communication engineering of
Visvesvaraya Technological University, Belgaum**

Submitted by

**DIVYA. ARUN. VERNEKAR
2GI09EC025
NAMRATA.D.KULKARNI
2GI09EC044**

**MEGHA MAHAJAN
2GI09EC042
SHRUTHI.N.TANDEL
2GI09EC091**

Under the guidance of

PROF. ROOPA.R.KULKARNI



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

**KARNATAK LAW SOCIETY'S
GOGTE INSTITUTE OF TECHNOLOGY
UDYAMBAG, BELGAUM – 590 008**

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
2012-2013**

Abstract:

The main aim of this project is to design and construct a helping aid for old and bedridden people to overcome the major problems faced by them in communicating their basic necessities like water, food or medicine etc which causes them a great deal of trouble in their day to day life. All the signal transmission is done using wireless RF module.

This device can also be used in hospitals and old age homes. In order to alert the care taker a display device and a buzzer is incorporated. A keypad is provided near the user for demanding his basic needs. The voice generating circuit is of great help to the user for the confirmation of his request if in case he presses the wrong key. If the caretaker is outside the home then using the GSM (Global system for mobile communication) modem a message is sent to the caretaker regarding the requirement of the patient.

The device designed, is portable and can be easily managed. The voltage or the power supply required is obtained from DC adapters. Depending on the key press the requirement is announced and displayed. Since GSM modem is provided it also helps the caretaker to be aware of the necessities of the user even when away from home. This provides a great deal of help for the care taker and the disabled person can be immediately attended to which, is otherwise not possible.

Keywords: PV89V51RD2, RF Transceiver module, GSM modem-simcom900,