

Project proposal

On

**“WIRELESS GLUCOSE LEVEL MONITORING
SYSTEM”**

**Under student projects programme
(spp - 35th series: 2011-12)**

Submitted to

**KARNATAKA STATE COUNCIL FOR SCIENCE
AND TECHNOLOGY, BANGALORE -560012**

By

Pooja C

Navajyothi N

Nishat Anjum

Basanti K

**Department of Medical Electronics, M S RAMAIAH
INSTITUTE OF TECHNOLOGY, MSR NAGAR,
MSRIT POST, BANGALORE-560 054**

Abstract

A Prototype of Wireless Glucose Meter is a device for measuring levels of glucose concentration in the blood. Glucometers help to detect and confirm hypoglycaemia and hyperglycaemia. High blood sugar may also be a sign of infection or illness that needs to be treated. Our project includes Software and Hardware Methodology. The Hardware circuit includes Glucose sensor, Microprocessor, LCD display, Microcontroller and GSM module. The software implementation is done in Assembly level Language. GSM services and SMS have been proven to be logical and cost effective method for transmission and receiving of data.

Blood glucose monitoring reveals individual patterns of blood glucose changes, and helps in the planning of meals, activities, and at what time of day to take medications. Also, testing allows for quick response to high blood sugar or low blood sugar. The main impact of this system is to help elderly people diagnose their glucose level without the need of doctor. And it is also portable device. Using GSM module the result can be sent to the doctor's mobile via SMS within 30sec, hence it can reduce health care costs and allow caregivers to monitor and support to their patients remotely, especially those located in rural areas.