**GSM BASED PATIENT MONITORING SYSTEM**

Recently the health care sensors are playing a vital role in hospitality. The patient monitoring systems is one of the major improvement in the hospitality because of its advanced technology. A wireless patient monitoring system to measure heartbeat, body temperature using GSM technology.   
  
 In general, a compact sensor, is used to monitor the heartbeat in analog form and to check the condition of the patient we required some more components such as thermometer etc.  
  
So we are here, just connected the temperature sensor and heartbeat sensor so that simultaneously we can monitor the patient’s health condition.  
  
 An embedded technology is used instead of dsp technology to develop this system so that it is easy to operate and available at an affordable cost. The doctor can monitor the patient condition anywhere in the world using GSM technology through SMS. Whenever critical condition is reached , automatically SMS is sent to the doctor.   
 Atmel (AT89S52) is used in this system. GSM technology is used to send SMS to particular mobile number which is already stored in the microcontroller.

SOFTWARE USED

1. Embedded C code
2. KEIL COMPILER
3. MICRO FLASH

HARDWARE USED

1. MICRO CONTROLLER AT89S52
2. 7805
3. IN4007
4. FILTER
5. GSM MODEM
6. Heart Beat Module
7. Temperature Sensor LM35
8. ADC 0808

**BLOCK DIAGRAM:**

GSM

MODEM

MAX232 INTERFACE

89S52 MCU

ADC 0808

Temp, Heart Beat Sensor Module