**A REMOTE SLEEP MONITORING AND MEDICAL ALARM SYSTEM**

**AIM:**

Monitoring sleep state and sending out alarm signal according to the state and acute disease.

**PURPOSE:**

The advantages of this system is to transmit “sudden acute disease” signal by the wireless way through the wrist pulse - monitoring devices and to avoid the inconvenience of wired connections .the signals of sound or telephone voice alarm can be produced by the bedside wireless receiving device.

**SECTION1:**

**MICRO CONTROLLER**

**(AT89S52)**

**PULSE SENSOR**

**RF TX**

**LCD DISPLAY**

**POWER SUPPLY**

**SECTION2:**

**MICRO CONTROLLER**

**(AT89S52)**

**ALARM**

**RF RX**

**LCD**

**POWER SUPPLY**

**DESCRIPTION:**

Sleep is an important physiological phenomenon, by sleeps humans can eliminate fatigye and recovery mental and physical strength well, after sleeping ,humans can maintain a good wakefulness, and improve working and learning efficiency .if the sleep disturbs it will directly affect our work and life and even produce the disease .

In this project, we are sensing the pulse rate of wrist. If the pulse is above/below the normal pulse rate, then the pulse rate & simultaneously it sends to the receiver through the RF receiver and gives the alarm

**SOFTWARES:**

1. Embedded C
2. Keil IDE
3. ISP
4. Express PCB

**HARDWARES:**

1. Microcontroller(AT89S52)
2. Power supply
3. Pulse Sensor
4. RF Transmitter
5. RF Receiver
6. Alarm.

**RESULT:**

Hence this project is to protect the persons while in sleeping by giving the alarm to emergency center.