

SMART ROOM

Software Simulation Project

CSE316 Term Project

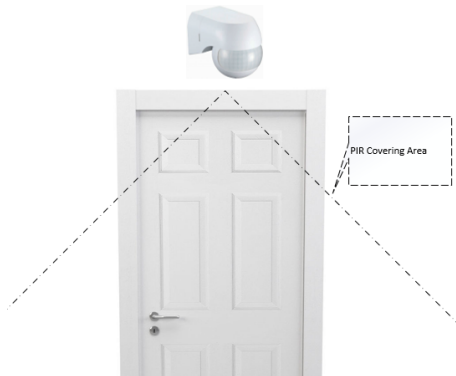
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Project Description

The project is a simulation of smart room in Proteus software using ATmega32 microcontroller. Our smart room will have some facilities that make our life more convenient and secure. However, the project does not solve any real life problem in a new way, rather it implements existing concepts.

❖ Sensor to detect human entry and exit



Features

- ❖ Automatic temperature and light control
- ❖ Manual mode available for convenience

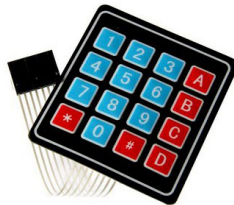
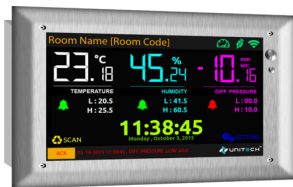


Features

- ❖ Fire alarm based on gas sensor, flame sensor and temperature reading



❖ Constant monitoring and digital control



- ❖ ATmega32
- ❖ PIR Sensor
- ❖ MQ2 Gas Sensor
- ❖ LM35 Temperature Sensor
- ❖ LDR Sensor
- ❖ Buzzer
- ❖ LCD Display
- ❖ 4×4 Keypad
- ❖ Flame Sensor