ITSP 2015

Group – TECHNOFREAKS

SUMMER AUTOMATION

With the help of Arduino GSM shield we can interact via message to control the fan operation and lights in a room.

The command from the mobile will be sent to the Arduino microcontroller via GSM Shield which will implement them. A temperature detector will detect the present temperature. A threshold temperature will be coded into the Arduino above which the user will get a message on his phone in which he can choose to start the fan mechanism if needed.

He can also turn on the fan manually via message from his cell

phone. Also there will be an L D R which will turn on the lights in the room as soon as night falls. Alongside this at night if the user leaves the room the lights will be automatically turned off and viceversa using PIR Sensor. As of now we will be using the following components

1) Arduino Module

2) Temperature Sensor

3) LDR

4) PIR Sensor

5) Bread board

6) Fans

7) LED lights

8) SIM card

The cost will be around Rs. 5,000/-.

The maximum time required will be 1 month.