

Sarvajanik College of Engineering and Technology
Department of Computer Engineering



Report
Project of
“AC Automation project”
(Under IOT Club)

Organized By

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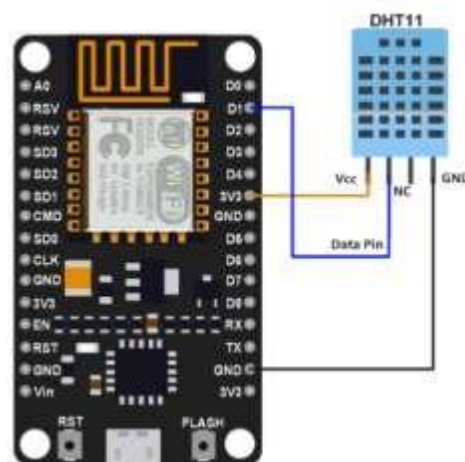
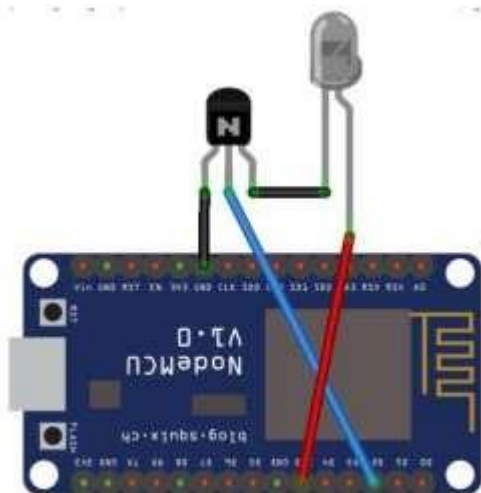
About the Project

We generally face problems regarding AC temperature in room, sometimes it's too cold and sometimes it becomes suffocative due to changing in number of peoples in room. Sometime it becomes hectic to keep changing temperature of AC so we came up with this idea of our project AC automation

So to provide solution for this we developed circuit that automatically maintains the temperature of room.

The solution is that, we developed s circuit that's operates AC for change temperature. We make this with following components.

- Node MCU
- NPN Transistor
- IR Diode
- DHT 11(Humidity and temperature measurement sensor)
- Jumping Wire
- TSOP



Using these 2 circuits we made this project. In this circuit, DHT11 sensor measures and provides humidity and temperature values serially over a single wire and TSOP receive AC temperature and according to that IR sensor emit the IR signal and AC temperature will change.

Time Line

First we started learning about IOT technology because we were totally new for this technology. It took 2 3 months to learn this. After that we brained storm for the project idea, so in span one week we decided to work on this project. After that we took 10 15 days of research work. After as soon as we got components we implemented it during span of 7-10 days. After successful implementation we were planning to implement in all labs. But due to COVID-19 government announced Vacation so whenever we will get chance we will implement in all labs.

Members involved

- Navdeep Dudhat
- Prince Bodar
- Hiral Rathod
- Nisha Kakadiya
- Dhruvit Maniya
- Gautam Sheta
- Sonika Shah
- Kunda Anas
- Joshi Riddhi

Future Scope for project

- We can use this prototype for domestic use also.
- We can convert this prototype to business model also for startup.
- We can take this idea for any competition like hackathon or ideation.