GOVERNMENT COLLEGE OF ENGINEERING BARGUR

(AUTONOMOUS)

PROJECT TITLE:

Environmental monitoring temperature and humidity

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HARDWARE MODEL

Hardware Model to Preheat DHT11 Sensor Module

As discussed earlier, we need to preheat the DHT11 sensor so that it can work accurately.

The following steps were performed to temperature andand humidity the DHT11 sensor module:

STEP 1 : The Vcc pin of the DHT11 sensor module was connected with the VU pin of NodeMCU.

STEP 2 : The Gnd pin of the DHT11 sensor module was connected with the Gnd pin of NodeMCU.

STEP 3 : The NodeMCU is powered with a 12V DC via AC-DC adapter for 20 minutes.

STEP 4 : The setup was then disconnected.

Fig. shown below describes the foresaid connections.

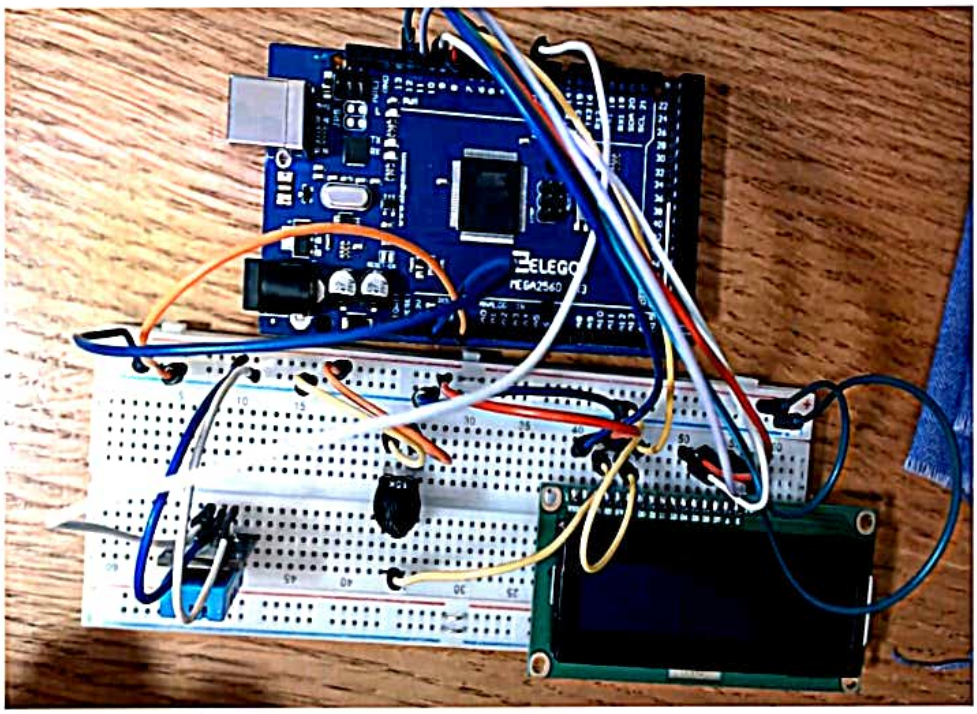

Fig.(Circuit Diagram to Preheat the DHT11 sensor module)

Hardware Model to Preheat and Calibrate MQ-135 Gas Sensor Module

The following steps were performed to preheat the MQ-135 gas sensor module

STEP 1 : The Vcc pin of the MQ-135 gas sensor module was connected with the VU Pin of NodeMCU.

STEP 2 : The Gnd pin of the MQ-135 gas sensor module was connected with the Gnd Pin of NodeMCU.

STEP 3 : The NodeMCU is powered with a 12V DC via AC-DC adapter for a day.

STEP 4 : The setup was then disconnected.

Fig. shown below describes the foresaid connections.

Circuit Diagram to temperature and humidity module