Innovative Projects- Arduino Using Embedded ‘C’ (CSE1002)

Phase –II Review Presentation

WATER QUALITY ANALYSIS USING ARDUINO

Submitted to the Presidency University, Bengaluru in partial fulfillment of the requirements for the Innovative Project- Arduino Using Embedded ‘C’

By IPC-204

NAME	ROLL NUMBER
KHUSHI S M	20211CSD0045
RAKSHIHTA N K	20211CDV0016
ANVITA V SAJEEVAN	20211CSG0007
SNEHA R	20211CSE0223
VIJAYEENDRA N	20211CBD0021
KIRAN N	20211ECE0293

Under the supervision of

Mrs.Manasa R
Assistant Professor
Department of Electronics and Communication Engineering

PRESIDENCY UNIVERSITY
Private University Estd. in Karnataka State by Act No. 41 of 2013

April , 2022

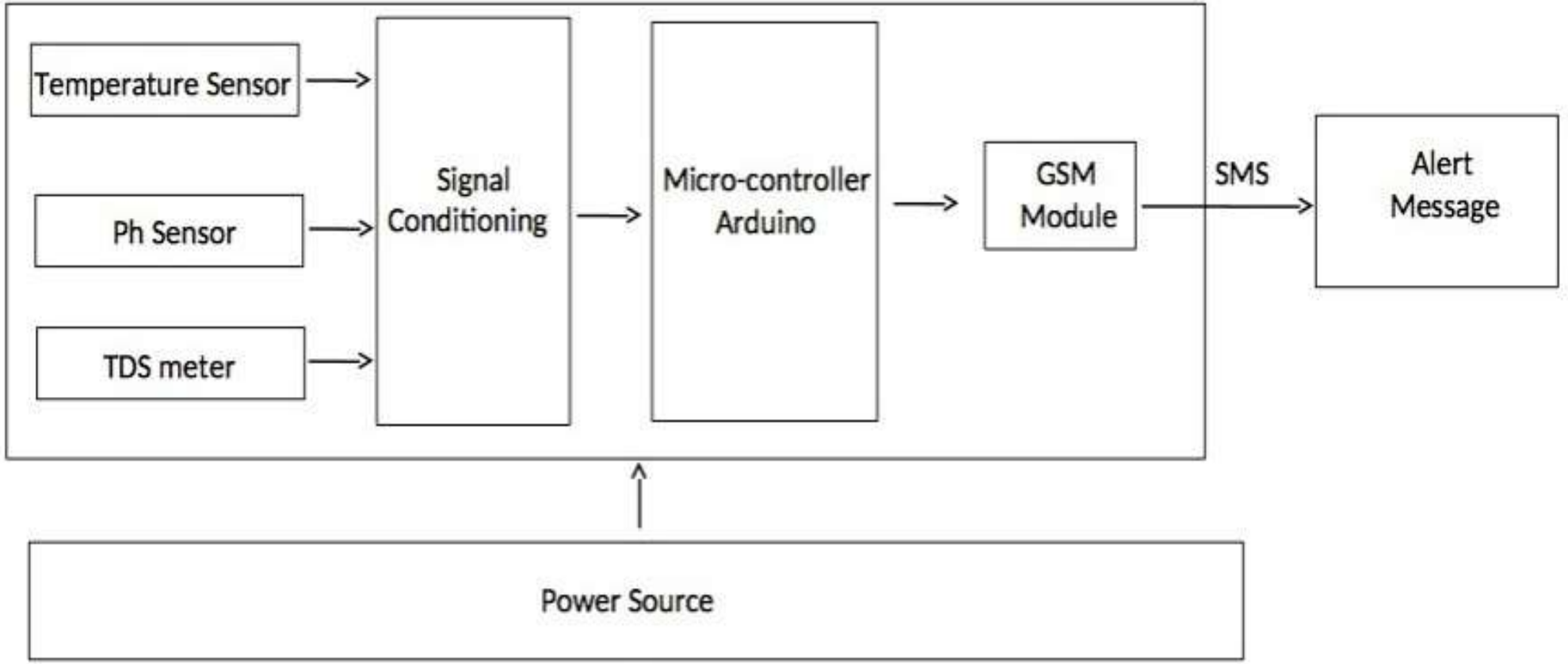
Project Brief Summery

- *Overview*: Water pollution affects human health by causing waterborne diseases. To prevent the water pollution, necessary steps are to be taken.
- First step is to estimate the water parameters like pH, turbidity, conductivity etc., as the variations in the values of these parameters point towards the presence of pollutants.
- *Objective:* To ensure the safe supply of drinking water, the quality should be monitored in real time for that purpose Arduino based water quality monitoring has been proposed.
- This system consists of different sensors which measures the water quality parameter such as pH, conductivity, muddiness of water, temperature.
- The measured values from the sensors are processed by microcontroller and the processed values are transmitted using GSM to the concerned authority.
- *Outcome:* Whenever the sensed parameter values exceed the threshold, message is sent to authorized person. Based on the parameters sensed by different sensors, an alert message will be received by the authorized person and accordingly they take necessary action to prevent or control pollution level.

Challenges Faced in Project

- The budget of the project is quite expensive because of the usage of different kinds of sensors(temperature sensor, pH sensor , etc.,).
- The coding part and connections of this project are difficult to comprehend for beginners in this field.
- On a final note, time management and balance between academics and the innovation project is crucial for the implementation of the project.

Circuit/Block Diagram

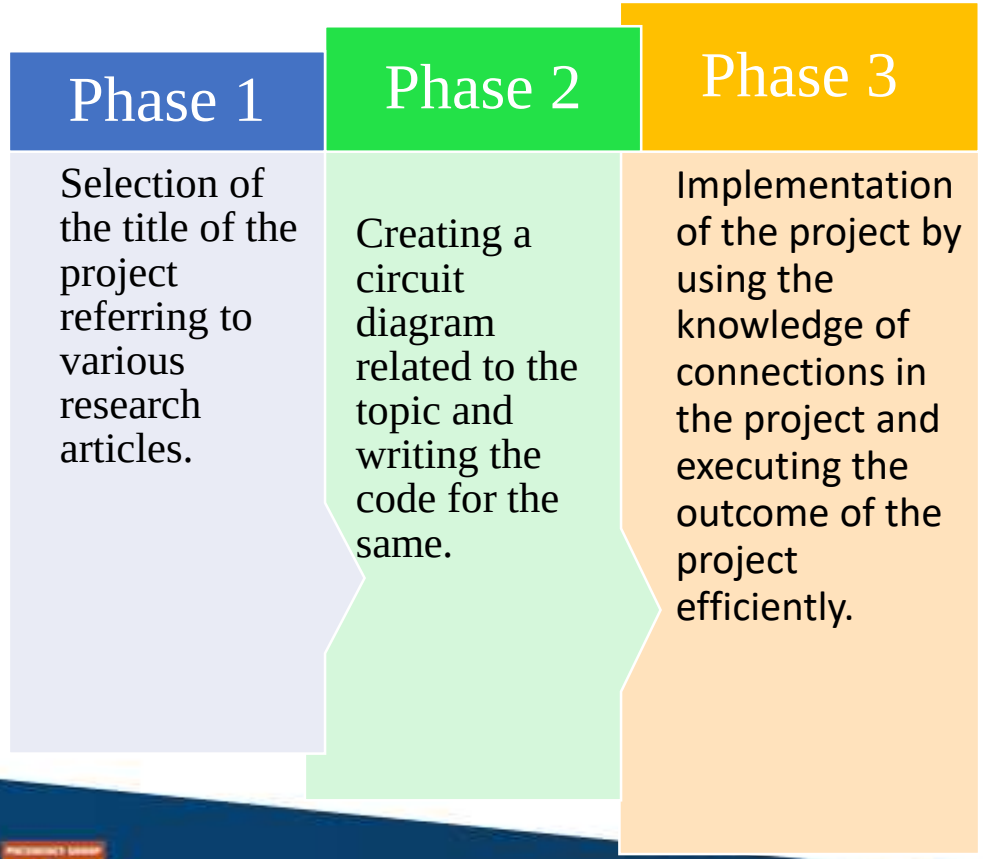


Obtained Results.

Include snapshot of the project prototype

Project Timeline

Note: Write in the below table what u have achieved in each phase and what you will be achieving before phase 3



Q&A

Thank you !!