**Work Plan:**

1. Collect data from online resources.
2. Showing the temperature and humidity using Arduino microcontroller.
3. GAS Leakage detection using MQ6 sensor and arduino microcontroller.
4. Implement Bi-Directional Person counter using sound sensor and Arduino.
5. Measuring the Sound level using sound sensor and Arduino.
6. Showing real time clock using RTC module and Arduino.
7. Implement SD card data logging system using SD card module and arduino.
8. Operate a GSM shield and implement messaging system .
9. Implement a mini conveyor belt to count product, Weight and show the percentage of productivity.

10.Assemble the whole system and implement an automation system based on temperature, Humidity, Smoke/Gas Leakage, Persons existing in the production room, Sound pollution in Production room at real time sensing.

11. Analyzing the system make a productivity function and sending updates of industry through GSM.