**Academic Year: 2022-23**

**Best Projects**

| S.No. | Name of the Project | Description | Photo |
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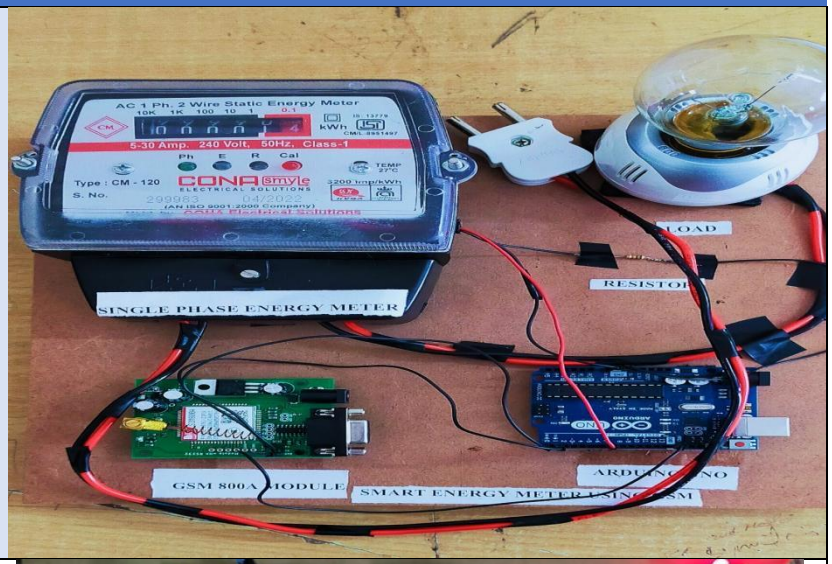
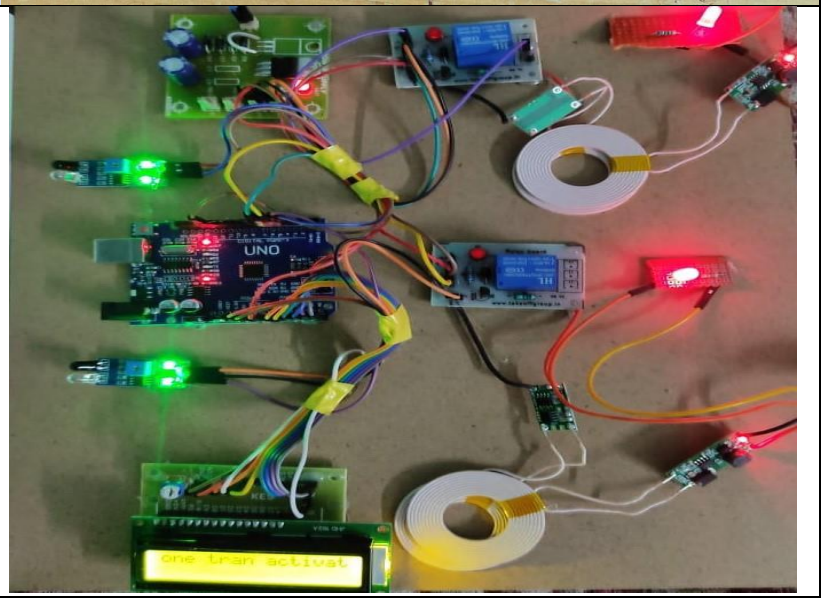
| 1 | Smart Energy Meter using GSM | Smart meter is an electronic device that measures the energy consumption by different time intervals, this time interval may be in minutes, hours, days or months. The proposed technology collects the data from meter and transfer that data to central database for storing data, analyzing and also monitoring the safety related issues. Moreover, it also includes the module which has provision of on demand units loading facility from the energy provider company by just sending a request SMS. |   |
| 2 | WIRELESS BATTERY CHARGING FOR ELECTRICAL VEHICLES | While using wireless charging, one must know that a transmitter and a receiver will be there.<br>This receiver generally converts 220v 50Hz AC power into high-frequency AC, which boosts the transmitter coil and thus generates a magnetic field.<br>The receiver coil then generates the current flowing in it. For effective wireless charging, it is necessary to maintain the resonance frequency for both the transmitter and the receiver.<br>Here compensation network is added to it to maintain the balanced frequency. Next, the AC power source is converted into DC power and feeds the battery with sufficient power. |   |

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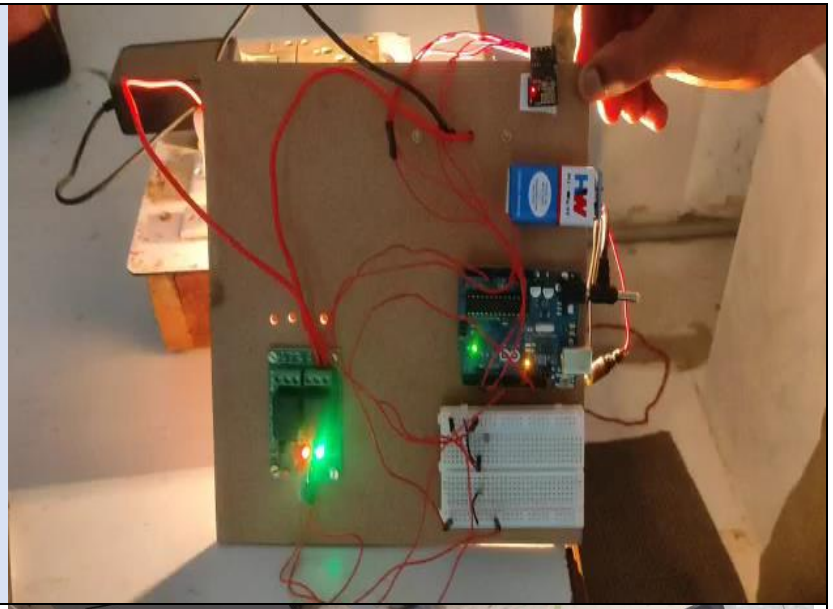
| 3 | REAL TIME STREET LIGHT MONITORING AND CONTROL | Now-a-days the amount of power consumed by lighting and streets shares a major energy demand. The Street light Automation system helps in reducing the energy consumption. Generally, street lights are switched on for whole night and during the day, they are switched off. But during the night time, street lights are necessary In this work the LDR is used as decide day & night time and used vehicle movement. It automatically switches the lights ON when the sunlight goes below the visible region of our eyes. |  |
| 4 | PROTOTYPE OF ADVANCED HIGHWAY POWER GENERATION AND EV'S WIRELESS CHARGING | This project is designed to control the speed of a DC motor using PWM control using 555 IC. The speed of the DC motor is directly proportional to the voltage applied across its terminals. Hence, if the voltage across the motor terminal is varied, then the speed can also be varied. |  |

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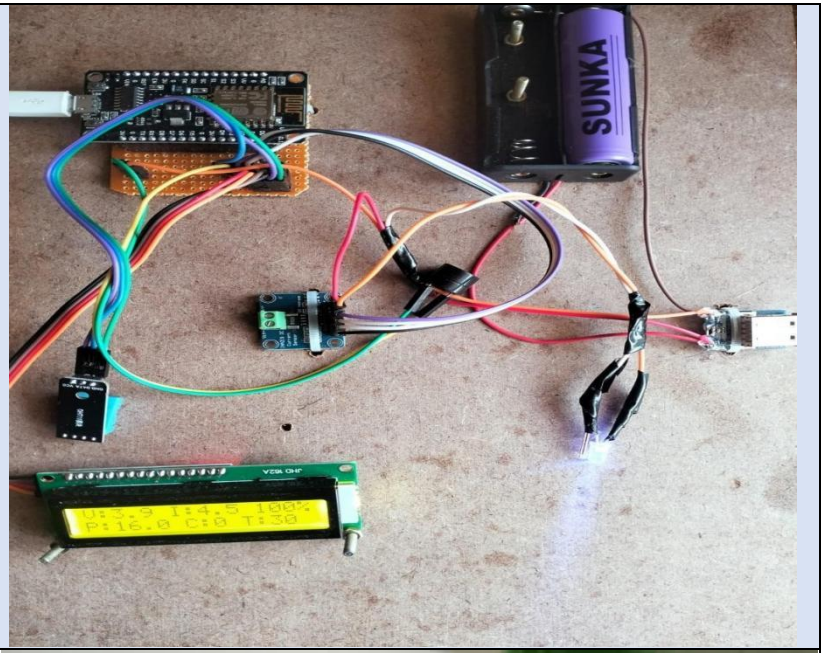
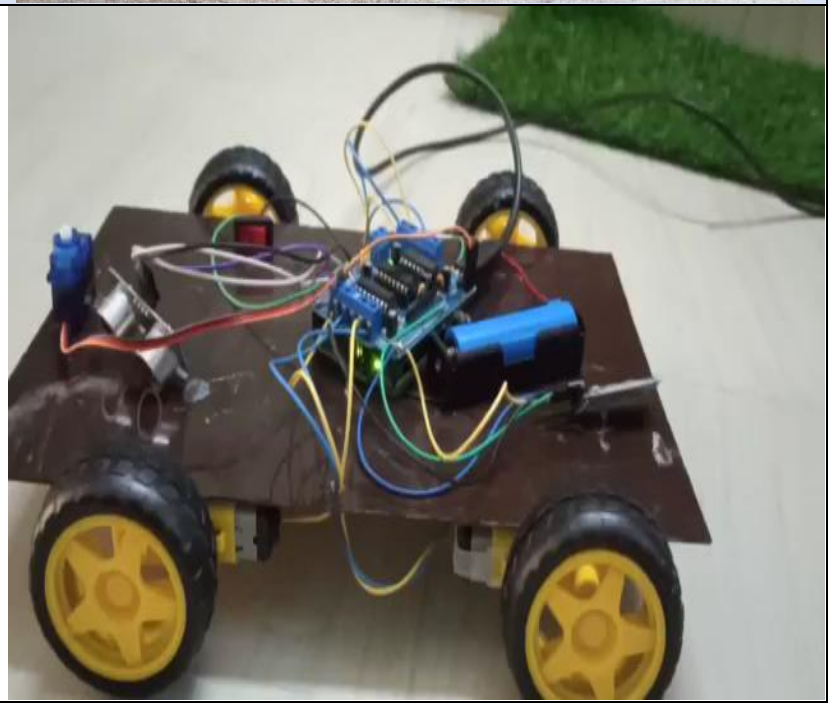
| 5 | IoT-BASED BATTERY MONITORING SYSTEM FOR ELECTRIC VEHICLE | In this project, we will build a Battery Monitoring System using ESP8266 & Arduino IoT Cloud. Using this system, we can monitor battery voltage and percentage from anywhere in the world. Therefore, this system is useful for monitoring battery charging /discharging status remotely. In this IoT based Battery Monitoring System, we use NodeMCU ESP8266 board to send the battery status data to the Arduino IoT cloud. The IoT Cloud Dashboard will display the battery voltage along with the battery percentage in both the charging and discharging conditions. |   |
| 6 | A prototype of advanced automotive safety system with obstacle avoiding, Bluetooth control and voice control. | Obstacle avoiding is the task of satisfying some control objective subject to non intersection or non-collision position constraints. Bluetooth control is the automation control system connects with the smart phone or remote devices through Bluetooth. Voice controlling is use a interface that allows hands-free operation of a digital device that means you can control your device with spoken command. In this prototype by using ultra-sonic sensors we can achieve obstacle avoiding technique. With the help of Bluetooth devices it is possible to achieve Bluetooth control by using low power radio waves. With the help of voice recognizing algorithm we can achieve voice controlling. |  |