

## Embedded IoT:

### IoT-Based Projects

1. IoT Smart Energy Meter using ESP8266 and Blynk
2. Smart Health Monitoring System using ESP32 & MAX30102
3. IoT-Based Battery Monitoring for EVs
4. Wireless Industrial Sensor System (Gas, Flame, LDR, IR)
5. Home Automation using Blynk and Relays
6. IoT-Based Water Level Monitoring System
7. Smart Agriculture using Soil Moisture and DHT11
8. Air Quality Monitoring System with MQ135 Sensor
9. Smart Parking System using Ultrasonic and NodeMCU
10. IoT Weather Station using DHT11 and ESP8266

### Robotics & Automation

1. Obstacle Avoiding Robot using Ultrasonic Sensor
2. Line Follower Robot with IR Sensors
3. Voice Controlled Robot using Bluetooth Module
4. Fire Fighting Robot using Flame Sensor and Water Pump
5. Gesture Controlled Robot using MPU6050
6. Wireless Surveillance Robot with Camera
7. Home Cleaning Robot (Auto-Path)
8. Pick and Place Robotic Arm using Joystick
9. ESP32 Controlled Smart Robot using Blynk
10. RF Controlled Robot Car

### Sensor-Based Projects

1. Gas Leakage Detection System with Alarm & SMS Alert
2. Smart Dustbin with Ultrasonic Sensor and Servo Motor
3. Temperature-Controlled Fan using DHT11
4. RFID Based Attendance System
5. Vehicle Detection and Control using IR & Servo
6. LPG Gas + Temperature Monitoring for Kitchen Safety

7. Rain Alert System using Rain Sensor
8. Soil Moisture Alerting System
9. Pulse Rate Monitoring System using MAX30100
10. Smart Fire Alert System with Buzzer and Notification

## **Power & Energy Projects**

1. Solar Power Monitoring System using ESP8266
2. Energy Theft Detection System
3. Automatic Street Light using LDR
4. Overload Protection using Current Sensor
5. Bidirectional Visitor Counter with Light Control
6. Three Phase Fault Detection System
7. Auto Changeover Switch for Mains and Inverter
8. Smart Transformer Monitoring System
9. Battery Overcharge Protection using Relay
10. DC Motor Speed Control using PWM

## **Wireless Communication Projects**

1. GSM-Based Home Security System
2. Bluetooth Controlled Devices using Arduino
3. Wi-Fi Controlled Car using Blynk
4. SMS Alert for Power Failure
5. RF-Based Remote Appliance Control
6. ESP32 Wi-Fi Door Lock System
7. LoRa-based Long Range Communication Project
8. ESP8266 Email Notification System
9. Home Automation using Alexa and ESP32
10. GPS Tracking System using GSM and Arduino

## **Miscellaneous Embedded Projects**

1. Digital Notice Board using ESP8266 and Blynk
2. Attendance System using Face Recognition (ESP32-CAM)



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3. Smart Helmet for Safety Monitoring
4. Patient Monitoring System with IoT
5. Smart Lock System using Keypad & RFID
6. Fire Detection and Alert System
7. Wireless Charging Station Monitoring
8. Remote Controlled Fan Regulator
9. Solar Panel Angle Tracker System
10. IoT Based Anti-Theft Alarm System