

ECE PROJECTS 2025 - 26

1. CCTV Footage based Security System with SMS based Alerts Notification on Motion Detection
2. Android based Virtual Nurse with Important Message Display and Panic Button Alert
3. Protection For Electric Linemen Using Mobile Application With A Code Based Circuit Breaker
4. QR Code Based Number Plate Recognition And Display On Lcd And Blynk Application
5. Smart Voice based Blind Stick for Visually Impaired with Multiple Sensor based Environment Monitoring
6. Foot step based power generation using Piezo and Multiple Load control using IOT Technology
7. Temperature, Humidity and Soil Moisture Monitoring System for Green House based Nursery Units
8. Contactless Temperature Sensing With Voice Alert Indication For COVID- 19
9. Ambulance Tracking With Patient Health Monitoring Using GSM GPS
10. Arduino based Traffic Congestion control with Automatic Signal Clearance for Emergency Vehicle
11. Electric Vehicle (EV) BMS With Charge Monitor and Fire Protection
12. IoT based Baby monitoring System - Smart Cradle
13. IoT based Baby monitoring System - With Wireless Camera Monitoring and Cradle Prototype
14. RFID Employee Smart Card For Parking & Canteen Automation
15. RFID Based Smart EVM For Reducing Electoral Frauds
16. Baby Monitoring System Using Wireless Sensor Network With GSM
17. PC Based EGG Incubator Parameter Monitoring
18. Hybrid Power Generation System using Wind, Solar and Turbine/Inverter with Android based Load Control System

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19. Wireless Machine to Machine Communication with Multiple Sensors, between two devices using IoT
20. IoT-Based Smart Shopping Cart Using Radio Frequency Identification
21. IoT based Pollution Monitoring System to measure dangerous Gases (Methane, Smoke, and Carbon Monoxide) parameters of Environment. (Based on Highly Polluted Cities like Delhi, Mumbai etc)
22. IoT based Flood Detection and Alert System for Local People using Web Update and RF based High Alarm.
23. RFID based Bus Announcement System for Visually Impaired persons
24. P10 LED Display Notice Board of 1Feet x 2Feet using IoT Technology to update message from anywhere in the World
25. IoT based Smart Helmet for Coal Mine Environment Monitoring System using Multiple Sensor
26. Smart Helmet for Vehicle Ignition Control with Alcohol Consumption Monitoring and Alert System using GSM Technology
27. IoT based Water Quality Monitoring System using pH, Salinity and Temperature Sensors for Highly Polluted / Contaminated Rivers (Such as Ganga and Yamuna).
28. Voice Based Smart 4 Channel (Fan and Lights) Control for Home / Industries
29. IoT based Parking Slot Detection System using Web Interface / Android Application
30. Railway Track Crack Detection Vehicle with Remote Location to Nearby Station using GPS and GSM System
31. Touch Screen based Induction Motor Speed and Direction Control System
32. Biometric Attendance System using GSM Technology
33. Electronic Fingerprint / Biometric based Voting System using IoT or GSM Technology
34. RFID Based Petrol Pump Automation System using Arduino Technology
35. Innovative complete solution for health safety of children unintentionally forgotten in a car: a smart Arduino-based system with user app for remote control
36. Automatic Smart Speed Breaker Based On Vehicle Speed With IoT

37. An emergency message and call system for people in epilepsy
38. Real-time alert system for auxiliary Transformer failure using GSM Technology
39. Vehicle theft intimation over SMS and Remote Lock of its Engine
40. IoT based Energy Efficient Street Light Technique with Air Quality Monitoring
41. IoT based pregnancy Women Health care monitoring for parental care
42. Car Accident with Alcohol Detector & Recorder Black box
43. Industrial Production Target Counter Display System
44. Stop and Go Queue Entry Manager System
45. Power Theft Detection and Intimation Energy Meter Information on through SMS with Auto Power Cutoff
46. Touch Screen based Induction Motor Speed and Direction Control System
47. Digital Nameplate with Visitor Sensing
48. Industrial Load Switcher Based On Touch Screen
49. Secure ATM Using Card Scanning along with OTP with Money dispensing System
50. Development of data acquisition robot for toxic environmental monitoring using WSN
51. Design and development of navigation system for visually impaired people
52. Vehicle movement street light with light sensing using Atmega Microcontroller
53. Real time monitoring and control system for green house based on 802.15.4 wireless sensor network
54. Hand Sanitizer With UV Light Protection
55. Transmission line multiple faults detection and indication to electricity board
56. Aircraft black box with auto information to the base station
57. Token number display with voice in security using microcontroller Arduino
58. Transformer industrial parameters management control system and intimation to electricity board
59. Vertical axis wind turbine with inverter
60. Station names Announcements System with distance indicator in railway

61. Arduino covid disinfection box using Ultraviolet LED Lights and Timer based System
62. Zigbee based Reliable Data Transmission to PC for Health Monitoring System using Heart Beat and Temperature Sensor
63. An Efficient IoT-Based Platform for Remote Real-Time Cardiac Activity Monitoring
64. Panic Button – For School Children / Women Safety System with Immediate Notification to Parents / Police
65. IoT solutions for Smart Cities: Garbage Dustbin management system and reporting to municipal authorities over IoT (Based on Swach Bharat Abhiyan)
66. Patient health monitoring in Cloud (heart beat and body temperature) over Internet of Things (IoT) – (based on Bio Medical)
67. Nano Satellite to Capture Image and Other Parameters of Earth based on Operator Commands and Send data back to Ground Station.
68. Automatic Waste Segregation System for Industries for Metal, Plastic and Wet Substances
69. Google Assistant based Home Appliances Control by Saying “OK Google” with Interactive Voice Response (Based on Alexa / Google Home Model)
70. Microwave based Home / Industry Security System with IoT / GSM based alert System
71. Microwave Radar based Human or Obstacle detection System using Arduino
72. Voice Recognition based Scrolling Notice board for Colleges Students using Matrix P10 LED Board
73. IoT based Green House Monitoring System using Temp, Humidity and Soil Sensor
74. Remote Sensing Satellite using Multiple Sensor, Microcontroller and Communication using RF 2.4GHz Frequency (Based on Chandrayan 2)
75. Woman security assistance system with GPS tracking and geo-position messaging system
76. Smart Paroxysm Protection and Life Saver System using IoT.
77. Intelligent Vehicle Emission Monitoring System and Values Monitoring using Android Application
78. Smart Solar Power Grid Measuring System using IoT Technology

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79. IoT based Smart Load Control and Room Temperature Monitoring System from anywhere in the World
80. Design of household control system based on Zigbee based Wireless Network System
81. Novel supervisory control for residential building protection system
82. Automatic plant watering and tank level alerting system
83. Knowledge based real time monitoring system for aquaculture using IOT
84. Innovative complete solution for health safety of children unintentionally forgotten in a car: a smart Arduino-based system with user app for remote control
85. Smart Wearable Device for Women Safety Using IoT
86. Arduino and IoT based device for septuagenarian fall detection
87. Remote Structural Health monitoring for Bridges using Multiple sensor
88. Substation Monitoring and control System using IoT
89. Design and implementation of bionic manipulator system using wireless control
90. Development of efficient power generation using automated renewable sources and automating street lights according to traffic density
91. Automated Smoking Zone Monitoring & Alerting Project
92. Prototype Of Aquaculture Using Iot Technologies using Multiple Sensors Units
93. Efficient power saver for street lights using LDR, RTC, LEDs light with solar power.
94. UPS Battery monitoring system over GSM for High availability system
95. Intelligent train engine to avoid accidents and controlling railway gate automatically
96. A new innovative and effective system for trains and railway stations for auto announcements of trains ,power saving and auto railway gate control
97. Advanced secured ATM system with three layer security protection
98. Innovative digital energy meter with over load indicator and power theft control
99. Advanced Smart energy saving system for modern railway station platform lighting control
100. Controlling multiple streetlights with single SMS with failure street light indication via SMS

101. Remote operated Smart electronic voice guider for physically disabled/bed ridden patients or old age people
102. Smart and cost effective wireless 20X4 LCD electronic notice board message updating system from android mobile
103. Electronic protection system to avoid exam paper leakages
104. Coal Mine System for Safety Monitoring & Alerting System to Help Desk
105. Solar power Environmental Air pollution and Water Quality Monitoring System
106. Advance Hybrid Energy Efficient Power Source using Wind and Solar Energy with IoT Technology
107. Design and Implementation of Real time Transformer Health Monitoring System using IoT or GSM Technology
108. An intelligent system for infant cry detection and information in real time using IoT
109. Multipoint Wireless Data Acquisition System for Smart Vehicle
110. Data Acquisition System for Automobile using SD Card
111. Automatic Smart Power Source Selector using Embedded 8 Bit Controller
112. Data Acquisition and Monitoring System of Solar Panel using IoT
113. Voice Operated Induction Motor Speed and Direction Control with Android Application
114. Aircraft black box with auto information to the base station
115. Advanced products price and info display with easy data changing system
116. A Zigbee based energy efficient environmental monitoring, alerting and controlling system
117. Development of smart helmet based on IoT technology for safety and accident detection
118. Design of knowledge based real time monitoring system for aquaculture using IoT
119. Design of an intelligent management system for agricultural greenhouses based on the Internet of things (IOT)
120. IoT based occupancy monitoring techniques for energy efficient smart buildings
121. Role of wireless sensor networks in forest fire prevention
122. Developing Portable Air Quality Information System based on Internet of Things

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123. Car black box system for accident prediction and crash recovery using IoT
124. Wireless data acquisition System for remote care of newly born premature using IoT Graphs
125. IoT based Green House Monitoring System using Temp, Humidity and Soil Sensor
126. Accident identification with automatic ambulance rescue system using GPS and GSM Technology
127. Capacitive Touch Sensor based 4 Channel Home Automation System
128. Wireless Capacitive Sensor based 4 Channel Load Control for Industrial Automation
129. NR24L01 based Wireless communication between two Arduino Modules
130. Fingerprint Recognition enabled Highly Secured Passport Management System
131. Smart Weather controlled Home Automation system using Multiple Sensor
132. Automatic Smart Sensor Interface for Industrial and Home IoT Environment
133. Integrated Mine Safety Monitoring And Alerting System
134. Wireless Fall Sensor with GPS Location Alert System for Monitoring the elderly people
135. A Design of IoT Gateway for Agriculture Green House
136. Automatic Voice Announcement based Robot Fire Analysis System
137. Led Advertising Board Based On IoT E-Circular Notification For Students Through Wi-Fi
138. Android based Scrolling Notice based for School / Colleges Students using Matrix LED Board
139. Smart IoT based Updating System for Bus Arrival Notification System using 20X4 LCD
140. Raspberry Pi based Smart Motion detection Security system using Camera and PIR Sensor
141. Coin Based Mobile Phone Charging System using Solar as Primary Power as Input Source for Rural (Un Electrified) areas
142. Automatic Industrial Pick and Place Robotic arm with Learning Mechanism
143. Monitor and control of Green House Effect using Multiple sensor using IoT
144. Animatronics Hand Design using Arduino and Servo Motors
145. MEMS based Assistance for Physically Challenged People
146. Smart Vehicle Design for Border Security System

147. Measuring and Transmitting Vital body sign using MEMS Sensor
148. Breathing Sensor for Sleeping Disorder pattern analysis
149. Wi-Fi based Industrial 4 Channel Devices Control System
150. Target directions identification with Radio detection and ranging: model RADAR
151. Implementation of solar water pump control with four different time slots for power Saving applications Using Arduino
152. Advanced secured ATM system with three layer security protection
153. Automated Car Parking With Empty Slot Detection using Arduino
154. IoT based Wireless Industrial Robotic Arm Control for Advance Automation
155. Smart Braking System of Vehicle based on Anti Collision System using Ultrasonic Sensors
156. Controlling Stepper Motor using Joystick for Industrial Applications
157. Design and Development of Hand Glove controlled Wheel Chair
158. Real Time School / Travel Bus Tracking System based on GSM and GPS Technology
159. Automatic Vehicle Over Speed Control System for School Zone
160. Infra Red based Under Water Communication using Arduino and Keyboard
161. Automatic Streetlight On/Off with SMS Controlling and light Failure detection with SMS Indication.
162. PC Controlled CNC Plotting Machine
163. A Buck and Boost Based Grid Connected PV Inverter Maximizing Power Yield From Two Solar Panels Arrays in Mismatched Environmental Condition
164. Efficient power saver for street lights using LDR, RTC, LEDs light with solar power
165. Motion based message conveyor for Paralytic and Disabled Person
166. Advanced voice based blind stick with voice announcement of obstacle distance
167. Remote Stepper Motor Controller System using Android and Bluetooth
168. Weather Report Streaming with Graphs using IoT
169. Design and development of precision Agriculture system using wireless sensor network
170. Precise Manual Control of Stepper Motor position control using Rotator Encoder

171. Stepper Motor based Conveyer belt mechanism using Arduino
172. Joystick Controlled Steering Mechanism Vehicle
173. Arduino Based System To Measure Solar Power using Voltage, Light and Temperature Sensors
174. GSM Stepper Motor Speed & Direction Controller
175. GSM based Wireless Bus Arrival Notice Board using 20X4 LCD for Bus Stand / Bus Depot
176. Coin Based Purified Drinking Water Dispenser System
177. Heart Attack Detection By Heart Beat and Temperature Sensors
178. Voice Based Smart Notice Board Using Android Application and LCD 20X4
179. Advanced user controlled roof top antenna signal tracking system using AVR MCU and 10RPM geared DC motor
180. ATM Security with RFID and One Time Password (OTP) through GSM
181. Hand gesture based wheel chair movement control for the disabled using (Micro Electro Mechanical Sensor) MEMS technology
182. Vehicle Movement Street Light With Light Sensing for Efficient Energy Consumption
183. Wireless Patient Health Monitoring With Critical Parameters alerts
184. Solar Powered Battery Charging With Reverse Current Protection
185. Multiple Cities Load shedding using Arduino
186. Hybrid Inverter with Solar Battery Charging System
187. IOT Based ICU Patient Monitoring System using HEART BEAT, TEMP AND ACCELEROMETER.
188. Fingerprint based Exam Hall Authentication system
189. Programmable Sequential Load Operation Controlled By Android Application Project
190. Android based Smart Transformer Health Monitoring System
191. Closed Loop DC Motor Control To Run It At Exact Speed
192. Android – Bluetooth based power on/off control and current measurement for office/industries electric outlets
193. Soldier Health and Position tracking System

194. Agriculture field motor control and Notification system using GSM Technology
195. Ultrasonic Blind Stick with GPS and GSM based Tracking
196. Smart Blind Stick with Voice Output on Obstacle Detection
197. Solar Based Un Interrupted Power Supply (UPS)
198. RPM display of Induction motor with Speed Controller
199. Footstep Power Generation System using PIEZO Electric Materials
200. Piezo Electric materials based Foot Step Power Generation with DC-AC 220V Inverter Technology
201. Device Load Monitor with Programmable Meter with Energy Audit
202. Power meter Billing with Load Control using GSM
203. Automatic Washing Machine Control System
204. Phase Sequence Checker for Three Phase Supply System
205. Solar Water Pump Control with Four Different Time Slots for Power Saving Applications
206. Solar Powered Auto Irrigation System using Soil Moisture Sensor
207. Solar Panel Current, Voltage and Power Consumption Meter using Arduino
208. Obstacle Avoidance In A Solar Powered Autonomous Vehicle
209. RFID based pesticides dosing with automatic plant irrigation for agriculture applications
210. Design of an Intelligent cloud based remote electricity metering and billing System over Internet of Things (IOT)
211. IOT based PET feeding device for Dog / Fish from any remote Location
212. Android based Wireless Electric Notice board in 2X16 lcd
213. Factory Worker Alcohol Detector With Automatic Machine Shutdown
214. Prepaid coffee dispenser with biometric recharge using finger print
215. Automated 5 DOF Robotic Arm Mechanism for Industrial Automation
216. Prepaid Energy Meter With Theft Detection
217. Energy Meter Monitoring Over IOT
218. Implementation of high sensitive GSM signal detector with audio visual alert indication

219. Fingerprint Based Highly Secured Bank Locker System
220. Fingerprint based Vehicle Ignition Starting System
221. Industrial appliances control system by decoding dual tone multi frequency signals on GSM / CDMA network.
222. Ultrasonic Target Range Estimation using SONAR Technology
223. Implementation of model Radar target direction identifier with remote station alert system
224. Wireless DC Motor Speed and Direction Control using RF Communication
225. Wireless Stepper Motor Control using RF Communication
226. Wireless Electrical Apparatus Control System using IR communication
227. Building smart cities: Automatic gas cylinder booking over IoT
228. Loco pilot operated unmanned railway gate control to prevent accidents over Internet of Things
229. Supervisory control and data acquisition system (SCADA) using GSM modem
230. SMS based Wireless electronic notice board using GSM and 20x4 LCD Module
231. Search and rescue robot for victims of earthquake and other natural calamities
232. Bluetooth based Robot Control for Metal / Land Mine Detection in Army Rescue Applications
233. Robotic Arm With Base Rotation, Elbow And Wrist Motion With A Functional Gripper for pick and place applications
234. Implementation of Solar inverter for home / garden / street light applications
235. Direction control of photo voltaic panel according to the sun direction for maximum power tracking
236. Non-invasive Blood Pressure Remote Monitoring over internet of things (IoT)
237. GSM Based Weather Reporting (Temperature/Light/Humidity)
238. Gesture Controlled Speaking Assistant designed using Micro Controller for the deaf & dumb
239. Android Controlled Remote AC Power Control
240. Digital Heart beat Rate monitoring system Using Arduino

241. Design of coal mine ventilator intelligent Monitoring system
242. Interactive RFID-based Bracelet for Airport Luggage Tracking System
243. Industrial device control over IoT
244. Landmine Detection Robotic Vehicle With GPS Positioning
245. Smart and cost effective wireless electronic notice board using LCD 2X16 message
246. updating system from android mobile
247. BLDC Motor speed control using Fuzzy Logic (Closed Loop Control)
248. GPS Handcuffs With Geographic Prohibitions using RF and Alerts
249. IOT Based Person/Wheelchair Fall Detection
250. IOT Patient Health Monitoring Project
251. IOT Heart Attack Detection & Heart Rate Monitor
252. Soldier Health & Position Tracking System
253. IOT Liquid Water Monitoring System
254. Anti Drowning System With Remote Alert
255. Ultrasonic Target Range Estimation using SONAR & Arduino
256. ZigBee based wireless remote weather station monitoring system
257. Digital control for home lighting systems with ZigBee communication
258. Arduino Based High sensitive LDR based power saver for street light
259. RTC Based Water Pump Switching System
260. IOT Air & Sound Pollution Monitoring System
261. RF ID Based Toll Tax management using Arduino / AVR Controllers
262. Mini Windmill Power Generation Project
263. Android based hand gesture based robot control using (mobile inbuilt Micro Electro Mechanical Sensor) MEMS technology
264. Android based home automation with fan speed control
265. Designing of RFID based Sensor Solution for Packaging Surveillance Applications
266. Automated Paralysis Patient Healthcare System Project

267. Talking Robot with Android and Bluetooth Control
268. Devising a solar powered standalone vehicle using GSM communication network
269. Fingerprint Authenticated Device Switcher
270. Fingerprint Based Highly Secured Exam Hall Authentication
271. Arduino Based RF Controlled Fire Fighting Robot with high pressure water sprinkler
272. Speed and direction control of DC motor using PIC microcontroller using PWM and H – bridge
273. Rotating Solar Panel Using Arduino
274. Fire & Gas Accident Avoider System
275. Solar UPS Project
276. GPS Vehicle Tracking & Theft Detection
277. Smart Alcohol Sensing Alert System with Automatic Engine Ignition Locking
278. Smart Wireless Battery Charging With Charge Monitor Project
279. Hand Motion Controlled Robotic Arm
280. Hand Motion Controlled Robotic Vehicle
281. Traffic Density Control With Android Override Using AVR
282. GSM based Industry Protection System
283. CNG/LPG Gas Leakage Accident Prevention System
284. Accident Identification and alerting project
285. Rain Sensing Automatic Car Wiper
286. Smart Room Temperature Controller Atmega
287. Automatic Unauthorized Parking Detector With SMS Notification To Owner
288. Ultrasonic Blind Walking Stick
289. Alcohol Sensing Display With Alarm Project
290. CNG/LPG Gas Accident Prevention With GSM Alert
291. Prepaid Electricity Billing Meter with Auto Power Cut off and SMS based Notification
292. DC Motor Speed Control Using GSM

293. Drink & Drive Detection With Ignition Lock Project
294. Fire & Gas Accident Avoider System
295. Automatic Railway Train Safety System
296. Programmable Energy Meter With Bill Estimation
297. Flammable Gas & Fire Accident Prevention Project
298. Workplace Alcohol Detector With Instant Reporting using SMS to Owner
299. RFID Attendance System With SMS Notification
300. GPS Vehicle Tracking & Theft Detection
301. Power Meter billing Plus Load Control Using GSM
302. Energy Management System With Programmable Numbers using GSM
303. Vehicle Theft Alert & Engine Lock System Using PIC
304. GSM based Industry Protection System
305. GSM Based Weather Reporting (Temperature/Light/Humidity)
306. CNG/LPG Gas with Fire Accident Prevention using GSM Technology
307. Monthly Electricity Billing Display With Bill SMS Feature
308. SMS Controlled Railway Level Gate Control With Programmable Numbers
309. Automatic Unauthorized Parking Detector With SMS Notification To Owner
310. Fire Plus Hazardous Gas Detection And Instant SMS Alerting System
311. Vehicle Theft Detection/Notification With Remote Engine Locking
312. Vehicle Speed Limiter Project
313. Smart Wireless Battery Charging With Charge Monitor Project
314. GPS Vehicle Tracking & Theft Detection and Alert System using GSM
315. Automated Car Parking With Empty Slot Detection
316. Energy Efficient Vehicle Movement based Street light Control System
317. Automated Elevator With Overload Alert
318. Accurate Room Temperature Controller Project
319. Fingerprint Based Exam Hall Authentication

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- 320. DC Motor Speed Control By Android
- 321. Digitally Controlled Home Automation Project
- 322. Home Appliance Control Using Android Application Project
- 323. SMS based 4 Channel Voting System using GSM Technology



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