

**ELECTRICAL BASED PROJECTS for DIPLOMA/BE/BTech/ME/MTech**

MOTOR BASED PROJECTS		
1	M1	Wireless Speed Control of DC Motor
2	M2	Wireless Speed Control of Stepper Motor
3	M3	Induction Motor Speed Control Using TV Remote
4	M4	Induction Motor wireless Speed Control Using PC Based Software
5	M5	BLDC Motor Speed Control with RPM Display using Fuzzy Logic Method
6	M6	DTMF Based Motor Speed Control
7	M7	DTMF Based Stepper Motor Speed Control with direction control
GENERAL ELECTRICAL PROJECTS		
10	SO1	Solar Powered Automatic LED Street Light Control using RTC
11	G623	Integrated Energy Management System Based On GSM with Acknowledgement Feature
12	G624	GSM Based Monthly Electricity Billing System
13	DT1	DTMF Based Agricultural Load Automation
14	HV1	High Voltage DC Generation (Upto 2 KV) from AC
15	A38	Auto Selection of any Available Phase in 3 Phase Supply System
16	RF223	RF Controlled Automatic On/OFF Timer for Induction Motor Starter
17	GN1	TV Remote Controlled Industrial Load Automation using RC5 Protocol for IR Communication
18	GN2	Ultrasonic Sensor Based Petroleum Level Measurement
19	GN3	Light Dimmer Circuit for Power Saving in Industry
20	GN4	DS1307 and Microcontroller based TV remote controlled Digital Clock.
21	GN5	GSM Based Power Grid Control System
22	GN6	Time Scheduling for automatic Irrigation system for agriculture
23	GN7	Interfacing High voltage devices to Microcontroller using optical isolation method
24	GN8	Triac and zero crossing detector based lamp dimmer
25	GN9	Solar Powered industrial boiler with temperature display
26	GN10	Microcontroller based Solar Tracker with Stepper Motor Control

27	GN11	Automatic Room Illumination Control	
28	GN12	Transformer Oil Temperature Monitoring with automatic circuit breaker operation	
29	GN13	High power LED based intelligent streetlight controlling system with automatic brightness control	
30	GN14	RC5 IR Based Remote Device Switching for Industrial applications.	
31	GN15	DTMF Based Remote appliance Control System using Mobile Phone	
32	GN16	Mobile phone DTMF technology controlled irrigation/ agricultural motor control system	

### RF BASED PROJECTS

33	RF201	Intelligent traffic light control system	IEEE
34	RF202	Low cost smart traffic control system	IEEE
35	RF203	Ultra Low Power Wireless Weather Station	IEEE
36	RF204	Wireless Sensor Network for Industrial Applications	NON-IEEE
37	RF205	Application of short Range wireless technology for industrial applications	NON-IEEE
38	RF206	RF Controller Development and it's intelligent transport system	NON-IEEE
39	RF207	Environmental Monitoring in green house sensor networks	NON-IEEE
40	RF208	Implementation of Land Rover with PC using RS232 protocol	NON-IEEE
41	RF209	Optimization of Home Appliances Control System using Wireless using PC with RS232 Protocol	NON-IEEE
42	RF210	Implementation of Wireless stepper motor control system through PC for industrial application	NON-IEEE
43	RF211	Wireless LED Scrolling Display using RF Technology	NON-IEEE
44	RF212	Automatic wireless temperature monitoring system for industrial applications	NON-IEEE
45	RF213	Multichannel Temperature Measurement using RF Technology	NON-IEEE
46	RF214	PC Based Wireless Robotic Arm	NON-IEEE
47	RF215	Wireless Temperature Data Logger using RS232 Protocol	NON-IEEE
48	RF216	RF based wireless motor control	NON-IEEE
49	RF217	<a href="#">Remote Areas Data Acquisition Using RF Module Abstract.</a>	NON-IEEE
50	RF218	<a href="#">Remote Areas Data Acquisition Using RF Module Abstract.</a>	NON-IEEE

51	RF219	<a href="#">WIRELESS CHATTING USING RF Abstract</a>	NON-IEEE
52	RF220	<a href="#">Modern house automation (AC/DC) using RF communication</a>	NON-IEEE
53	RF221	RF based Robotic Arm with direction control	NON-IEEE
54	RF222	Smart Parking system with data logger using PC	NON-IEEE

### ROBOTICS BASED PROJECTS

55	RO1	Microcontroller Based Wire Less Network Controlled Low Cost Autonomous Vehicle	IEEE
56	RO2	Develop a Multiple Interface Based Fire Fighting Robot	IEEE
57	RO3	Implementation of Obstacle Avoidance and ZigBee Control Functions for Omni Directional Mobile Robot	IEEE
58	RO5	Gas detection robot	NON-IEEE
59	RO6	MEMS based direction control for robot	NON-IEEE
60	RO7	Alcohol Sensing Robot	NON-IEEE
61	RO8	Laser Controlled Robot	NON-IEEE
62	RO9	Remote Controlled Robot	NON-IEEE
63	RO10	Navigation and mobile security system of intelligent security robot	NON-IEEE
64	RO11	Path planning for collaborative multi-robot systems	NON-IEEE
65	RO12	Tele operation of a robot manipulator using a human – robot interface	NON-IEEE
66	RO13	The design of a wheel chair mounted robot	NON-IEEE
67	RO14	The development of intelligent home security robot	NON-IEEE
68	RO15	Fire analyzing robot with voice feedback	NON-IEEE
69	RO16	Wireless based crane control	NON-IEEE
70	RO17	Wireless Racing Robot	NON-IEEE
71	RO18	Automatic Seed Sprayer	NON-IEEE

### ZIGBEE BASED PROJECTS

72	Z301	Design and Implementation of the Zigbee-based body sensor network system	IEEE
73	Z302	Zigbee Wireless Vehicular Identification and Authentication System	IEEE
74	Z303	Development of Zigbee based Street Light Control System	IEEE
75	Z304	Technologies for Remote Data Acquisition Systems in Environmental Monitoring	NON-IEEE
76	Z305	Development of ZigBee based Street Light Control System	NON-IEEE
77	Z306	ZigBee Wireless Sensor Network in Industrial Applications	NON-IEEE
78	Z307	A wireless design of low-cost irrigation system using ZigBee technology	NON-IEEE

79	Z308	Wireless joystick control for human adaptive mechatronics applications: Case trolley crane	NON-IEEE
80	Z309	ZigBee-based alarm system for pervasive healthcare in rural areas	NON-IEEE
81	Z310	Remote Power ON/OFF control for Home Electric Outlets	NON-IEEE
82	Z311	Based on a Low Power Embedded Board & Zigbee communication	NON-IEEE
83	Z312	ZigBee Device Control and Reliable Data Transmission in ZigBee Based Health Monitoring System	NON-IEEE
84	Z313	Wireless Sensor networks & Its Applications in Industrial	NON-IEEE
85	Z314	Wireless Access Monitoring and Control system based on Digital Door lock	NON-IEEE
86	Z315	A ZigBee-Based Power Monitoring System with Direct Load Control Capabilities	NON-IEEE
87	Z316	ZigBee based Data Monitoring and analysis for power station	NON-IEEE
88	Z317	Development of ZigBee based street light control system using ic protocol based RTC	NON-IEEE
89	Z318	ZigBee based GAS leak detection and data monitoring system	NON-IEEE
90	Z319	ZigBee based Monitoring system using Auto-dialer	NON-IEEE
91	Z320	Hand held multi parameter monitoring system	NON-IEEE
92	Z321	Secret message communication by code / de-code over wireless and LCD display for both sender and receiver	NON-IEEE
93	Z322	An On-line Monitoring system of temperature of conductors and fittings based on web SMS and ZIGBEE	NON-IEEE
94	Z323	PC controlled electrical load management by ZigBee wireless	NON-IEEE

### RFID BASED PROJECTS

95	RI401	Using RFID Technology to Develop an Attendance System and Avoid Traffic Congestion around Kindergartens	IEEE
96	RI402	The Electronic Passport and the Future of Government-Issued RFID-Based Identification	IEEE
97	RI403	Location-Based System for Mobile Devices Using RFID	IEEE
98	RI404	RFID based material tracking information system	IEEE
99	RI405	Security Architecture for RFID Application in Home Environment	IEEE
100	RI406	Wireless Access Monitoring and Control System based on Digital Door Lock	IEEE
101	RI407	Smart Parking Applications Using RFID Technology	IEEE
102	RI408	RFID Based College Library Management	NON-IEEE
103	RI409	RFID Based Railway Ticketing System	NON-IEEE

104	RI410	RFID Based Autoamtic Toll Gate Automation	NON-IEEE
105	RI411	RFID Based Electronic Voting Machine System	NON-IEEE
106	RI412	RFID Based Banking System	NON-IEEE
107	RI413	RFID Based Patient Information System	NON-IEEE
108	RI414	RFID Based Industrial Load Access System	NON-IEEE
109	RI415	RFID Based Parking Lot Access & Control System	NON-IEEE
110	RI416	RFID Based Airline Baggage System	NON-IEEE
111	RI417	RFID Attendance System with PC Database	NON-IEEE
112	RI418	RFID Based Object Trackig System	NON-IEEE
113	RI419	RFID Technology for Medical Appliations	NON-IEEE
114	RI420	ADVANCED AND INTELLIGENT DISTANT VEHICLE IDENTIFYING AND AUTOMATIC ENTRY SYSTEM USING ACTIVE VEHICLE RF-ID	NON-IEEE
115	RI421	AUTONOMOUS NAVIGATION OF RF-ID SENSING ROBOTS	NON-IEEE
116	RI422	RF-ID ELECTROMAGNETIC DOOR LOCK	NON-IEEE
117	RI423	RF-ID/ PROXIMITY BASED CAMPUS CARD / CORPORATE CARD RF-ID/ PROXIMITY BASED HEALTH CARD / INSURANCE / PHARMA HEALTH CARD	NON-IEEE
118	RI424	SECURED POSTAL DEPT COMMUNICATION SYSTEM FOR HIGH SECURITY APPLICATION	NON-IEEE
119	RI425	UNMANNED BUS TICKET ISSUING SYSTEM FOR PASSENGERS	NON-IEEE
120	RI426	PASSPORT VERIFICATION BASED ON RF-ID	NON-IEEE
121	RI427	RFID based Toll booth automation.	NON-IEEE

### SENSOR BASED PROJECTS

122	S501	Irrigation Control Monitoring System	IEEE
123	S502	Design of the Temperature Control System of Solar Cell Lamination Machine	IEEE
124	S503	Development of Remote Waste Gas Monitor System	IEEE
125	S504	Parking Guidance System based on Wireless Sensor Network	IEEE
126	S505	SENSOR NETWORKS FOR INDUSTRIAL APPLICATIONS	IEEE
127	S506	DEVELOPMENT OF TILT AND VIBRATION MEASUREMENT AND DETECTION SYSTEM USING MEMS ACCELEROMETER AS A SENSOR	IEEE
128	S507	Pollution Monitoring & Control System Using Gas Sensor	NON-IEEE
129	S508	Alcohol Breathe Analyzer	NON-IEEE
130	S509	Gas Leakage Detection for Home Safety MQ3	NON-IEEE



131	S510	Gas Leakage System with SMS Alert using MQ4	NON-IEEE
132	S511	Gas Leakage Alert System Using RF Technology	NON-IEEE
133	S512	LPG Sensor Using MQ7	NON-IEEE
134	S513	Low Cost wireless Weather Station using Temp, LDR, Humidity sensor	NON-IEEE
135	S514	Transformer Temperature Monitoring System	NON-IEEE
136	S515	PC Based Temperature Data Logger	NON-IEEE
137	S516	Temperature Indicator & Controller for Boiler	NON-IEEE
138	S517	Wireless temperature indicator using ds1621 temperature sensor	NON-IEEE
139	S518	Ultrasonic sensor based Distance warning system for accident prevention	NON-IEEE
140	S519	Ultrasonic sensor base distance measurement system	NON-IEEE
141	S520	Ultrasonic sensor based parking lot management	NON-IEEE
142	S521	Ultrasonic sensor based Blind Path Navigation System	NON-IEEE
143	S522	Ultrasonic Proximity Detection System	NON-IEEE
144	S523	Ultrasonic sensor based Obstacle Avoidance Robot	NON-IEEE
145	S524	Ultrasonic Sensor Based Petroleum Level Measurement	NON-IEEE
146	S525	Accelerometer based electrical load automation	NON-IEEE
147	S526	Accelerometer based Accident Detection System	NON-IEEE
148	S527	LDR Based automatic Street Light Control	NON-IEEE
149	S528	LDR Based Smoke Detection for Industries	NON-IEEE
150	S529	Heart Beat Monitoring System	NON-IEEE
151	S530	Patient Health Monitoring System	NON-IEEE
152	S531	Visitor Counter and automatic room light controller	NON-IEEE
153	S532	Automatic Railway Gate Crossing using IR sensors	NON-IEEE
154	S533	Pressure Measurement using MPX Motorola sensor	NON-IEEE

### GSM&GPS BASED PROJECTS

155	G601	Design and Implementation of Real Time Vehicle Tracking System	IEEE
156	G602	A Real-time Precrash Vehicle Detection System	IEEE
157	G603	GPS-GSM Integration for Enhancing Public Transportation Management Services	IEEE

158	G604	GSM-Based Wireless Home Appliances Monitoring & Control System	IEEE
159	G605	Design & Development of a GSM Based Vehicle Theft Control System	IEEE
160	G606	A Low Cost GSM & Based Wireless Home Security System	NON-IEEE
161	G607	Temperature Control via SMS	IEEE
162	G608	Design & Development of a GSM Based Vehicle Theft Control System	IEEE
163	G609	Real-Time Atomization Of Agricultural Environment For Social Modernization Of Indian Agricultural System	NON-IEEE
164	G610	Design And Application Of Mobile Embedded Systems For Home Care Applications	NON-IEEE
165	G611	Design Of A Hybrid RFID/GPS-Based Terminal System In Vehicular Communications	NON-IEEE
166	G612	A Remote Measurement and Control System for Greenhouse Based on GSM-SMS	NON-IEEE
167	G613	GSM based wireless home appliances monitoring & control system	NON-IEEE
168	G614	GSM based distribution transformer monitoring system	NON-IEEE
169	G615	Automatic power meter reading system using GSM network	NON-IEEE
170	G616	Design & Development of a GSM Based Vehicle Theft Control System	NON-IEEE
171	G617	Mobile monitoring system for smart home	NON-IEEE
172	G618	Design Of Remote Data Acquisition System Of Passenger Flow Based On GSM	NON-IEEE
173	G619	A Remote Measurement & Control System For Cultivation Based On Gsm Sms	NON-IEEE
174	G620	Automated System For Fault Analysis In Industries Using GSM	NON-IEEE
175	G621	RTA Regulation for Environment Polluting Vehicles(T/F) (GSM&GPS)	NON-IEEE
176	G622	GSM based advertising system using LED panel	NON-IEEE

### RTC & TIMER BASED PROJECTS

177	RT101	<u>Real Time Automatic Irrigation System Project Report</u>	NON-IEEE
178	RT102	Real Time Automatic LOAD automation in industries	NON-IEEE

179	RT103	Real Time Automatic Irrigation System in agriculture	NON-IEEE
180	RT104	Real Time colleague bell with 25 intervals	NON-IEEE
181	RT105	BI-Directional visitor counter with load automation	NON-IEEE
182	RT106	RTC Based Induction Motor Starter	NON-IEEE

### PIR BASED PROJECTS

183	PI701	Power saver for home and Auditorium applications	NON-IEEE
184	PI702	PIR based security system	NON-IEEE
185	PI703	PIR based automatic security system for museum application	NON-IEEE
186	PI704	GSM & PIR based Video Recording device control system	NON-IEEE

### TOUCH SCREEN BASED PROJECTS

187	TO801	Touch panel based industrial device management system	NON-IEEE
188	TO802	Touch panel based wheel chair for handicapped persons	NON-IEEE
189	TO803	Touch panel based hot spot information kiosk using ZIGBEE	NON-IEEE
190	TO804	Touch screen controlled motor speed and direction control system	NON-IEEE
191	TO805	Construction of Touch screen based portable Digital Clock	NON-IEEE
192	TO806	TOUCH SCREEN BASED NURSE/ATTENDANT CALLING SYSTEM FOR PHYSICALLY IMPAIRED.	NON-IEEE
193	TO807	TOUCH PANEL BASED AUTOMATION	NON-IEEE
194	TO808	TOUCH PANEL CONTROLLED ROBOT.	NON-IEEE