

## POWER ELECTRONICS AND DRIVES

SL NO	PROJECT TITLE	PRICE
1	TRIAC and ZCS based AC lamp dimmer	
2	Automatic circuit breaker based on high current	
3	High voltage Fuse blow indicator	
4	Induction motor speed control based on SCR	
5	Integrated TV remote control for controlling devices using TRIAC	
6	Cell phone based home appliance control using TRIAC	
7	Electrical parameter data logger using microcontroller and PC	
9	PIR based energy conservation system for corporate devices	
10	Single phase inverter using IGBT	
11	MOSFET based inverter	
12	Series inverter	
13	MOSFET controlled speed regulation of DC motor with direction control	
14	LUX content based auto room illumination control	
15	Under and over voltage protection system	
16	Electronic soft start using ZCS for AC devices	
17	Differential relay	
18	Thyristor based variable power supply	
19	Transformer temperature protection relay	
20	MOSFET based chopper	
21	RPS design over various voltage	
22	SMPS designing	
23	SCR based half wave full controlled rectifier	
24	SCR based full wave full controlled rectifier	

25	<b>Bidirectional Speed Control of a 1 phase Induction Motor (PWM based)</b>	
26	<b>Bidirectional Speed Control of a 1 phase Induction Motor (ZVS based)</b>	
27	<b>Electronic Circuit Breaker</b>	
28	<b>Automatic utility power supply selection</b>	
29	<b>Controlling AC lamp dimmer through mobile phone.</b>	
30	<b>Transformer temperature monitoring with auto circuit breaker alarm.</b>	
31	<b>Measuring power quality of a System.</b>	
32	<b>Over voltage announcement in industries for safety purpose.</b>	
33	<b>Voice enabled home automation for blind people.</b>	
34	<b>Auto tracking antenna using stepper motor control.</b>	
35	<b>Soft Start of a 1-Phase Induction Motor</b>	
36	<b>Mobile based Tap Changer</b>	
37	<b>Cell phone based motor speed control.</b>	
38	<b>RF based Bidirectional Speed Control of College Motor XB</b>	
39	<b>Speed control of DC motor using CHOPPER</b>	

## ELECTRICAL

SL NO	PROJECT TITLE	PRICE
1	SCADA based power control using PLC	
2	On Load Tap Changer using SSR	
3	Automatic Stabilizer	
4	Power factor correction using shunt capacitor with ZVS and ZCS	
5	Dynamic MPPT for photo voltaic array	
6	IGBT based AC output of desired magnitude and frequency	
7	Fly-back converter high voltage supply	
9	Electrical parameter data logger using Lab-VIEW	
10	An efficient home energy management system based on (AMR) Auto Meter Reading	
11	MOSFET based synchronous buck converter	
12	MOSFET based synchronous boost converter	
13	Automatic star Delta starter using relay and adjustable electronic timer for induction motor	
14	Brushless DC motor speed control at a desired rate	
15	Protection of a Three phase load from single phase over temperature	
16	3 phase fault analysis with auto reset on temporary fault with permanent tripping	
17	Computer automated virtual instrument design using LabVIEW	
18	Signal generator instrument using Lab-VIEW	
19	Mobile phone based AC lamp dimmer	
20	IR remote based intensity control of AC bulb	

21	SCADA implementation based on wireless technology	
22	Voice controlled device switching	
23	Touch screen based switch board design	
24	ZVS switching of Load	
25	Variable power supply using fixed voltage regulator IC with display	
26	Clap detected device control	
27	Human detecting automatic gate operation	
28	Touch screen based induction motor speed control	
29	Speed and direction of induction control using touch screen	
30	DC motor speed and direction control using H bridge and touch screen	
31	Touch screen based password operated industrial security system	
32	Touch screen based temperature monitoring and control system with GLCD	
33	Programmable load shedding time management for utilities	
34	Wireless tank water level controller with indicator	
35	Solar tracking system based on light intensity	
36	Ammeter designing for various AC application	
37	Soil Moisture based Irrigation System	
38	Electrical parameter based SCADA using wireless technology.(Four channel)	
39	IVRS System for College Database management	
40	Track failure intimation to station master using DTMF technology. (voice based)	
41	Developing a Digital Voltmeter	
42	Contact less digital Tachometer with display on LCD	
43	Wireless Device Monitoring in a Large Complex	
45	RF communications based operation of a Robotic Wheelchair (motor)	

46	RF based data acquisition system (Temperature)	
47	RF based tank water level indicator	
48	ZIGBEE based Water level Indicator System XB	
49	Industrial Boiler Temperature Control using Wireless Communication XB	
50	GSM based electricity billing system	
51	GSM based speed control of AC fan	
52	Home security and maintenance using GSM	
53	RFID based office load management.	
54	Improving security and automation in MNC using RFID	
55	PLC using microcontroller	
56	TV remote based intelligent switch board	
57	On Load Tap Changer	
58	Wireless Energy Meter	
59	Wireless Energy Meter with Cross Checking Facility	
60	Prepaid Wireless Energy Meter	
61	Prepaid Wireless Energy Meter with Cross Checking Facility	
62	Electricity Distribution System.	
63	Intelligent Street Lighting System. (Detects traffic & turns ON lights)	
64	Power supply failure alarm with QOS of machines for industrial application	
65	Solar Powered Traffic Lighting System.	
66	Intelligent Street Lighting System. (All lights connected to central PC)	
67	PC based room lighting control.	
68	Wireless room lighting control.	
69	Remote enabled mobile charger	
70	Intelligent Room lighting. (Counts if person in room & turns ON light)	
71	Power control & logging System	

72	Distribution Transformer Parameter Monitoring System (V,I and T monitoring)	
73	Quality test of a product.	
74	Temperature sensed FUZZY LOGIC control of a DC fan.	
75	Controlling various loads using mobile technology	
76	Ignition start enabled by the operation of a cell phone	
77	RF based Bidirectional Speed Control of College Motor (AC)	
78	RF based speed control of fan (DC)	
79	RF based speed control of fan (AC)	
80	Wireless Energy Meter with Enhanced Range of Communications XBEE	
81	Industrial Parameter Monitoring System with Intimation to Remote Control Room (VIT) XBEE	
82	Wireless Device Monitoring in a Large Complex XBEE	
83	Smart card based power management system MNCs	
84	Prepaid electricity through smart cards.	
85	Smart card based authenticated device control	
86	Shopping management with smart card	

## SOLAR PROJECTS

SL NO	PROJECT TITLE	PRICE
1	Design of Solar Inverter Circuit for Homes	
2	Solar Tracking Solar Panel Using micro Controller	
3	Implementation of Solar Battery Charger Circuit	
4	Solar Power Based Water Heater	
5	Solar Energy Based Cooker	

6	Maximum Power Point Tracking for Low Power Photovoltaic Solar Panels	
7	Solar Powered Auto Irrigation System	
9	Solar Powered Coir Provostor	
10	Solar Powered LED Street Light with Auto Intensity Control	
11	Design of Solar Powered Night Lamp Circuit	
12	Solar Energy Measurement System	
13	Farmer Friendly Solar Based Electric Fence for Rural Agriculture	
14	Development of Dual-Axis Solar Tracking using microcontroller	
15	Beam Circuit Solar Engine	
16	Microcontroller Based adjustable Solar Water Heating System	
17	Solar Based Advanced Weather Monitoring System Using Wireless Sensor Network	
18	Solar Powered Automatic Rain Operated Wiper	
19	Forest Fire Detection Using Optimized Solar Powered Wireless Sensor Networks	
20	Design of Simple Solar Charger Circuit for Mobiles	
21	Self-Powered Solar Data Logger	
22	Flashlight Controlled Solar Powered Robot	
23	Design of Solar Electric Bicycle	
24	A Hybrid Wind-Solar Energy System	
25	Solar Based Wireless Power Transfer	
26	Wearable Solar Based Cool Cap	
27	A Project on Solar Chimney	
28	Solar powered Induction Motor Driven Water Pump Operating on a Desert Well	
29	Solar Powered Line Following Vehicle	
30	Solar Power Based Industrial Boiler Controller	
31	Solar Charging Handbag	

<b>32</b>	<b>High Efficiency Photovoltaic Source Simulator with Fast Response Time</b>	
<b>33</b>	<b>Solar Powered Automated Fertigation Control System for Cultivation in Green House</b>	
<b>34</b>	<b>Sunlight Powered Steam Engine</b>	
<b>35</b>	<b>Lead-Acid-Battery Regulator For Solar Panel Systems</b>	
<b>36</b>	<b>Auto control of light using solar panel (Day Night)</b>	
<b>37</b>	<b>Intensity controlled street light using solar power</b>	
<b>38</b>	<b>Solar powered seismograph for earthquake detection</b>	