

BTECH/MTECH MINOR/MAJOR PROJECTS

❖ ECE/EE

Project list of Embedded System:

- ✓ Password based Door Lock System.
- ✓ Human Detection Robot.
- ✓ GSM Controlled Robot.
- ✓ DTMF based Robot.
- ✓ Sun Tracking Solar Panel.
- ✓ Digital Temperature Sensor.
- ✓ Bluetooth Controlled Home Appliances.
- ✓ Water Level Indicator.
- ✓ Electronic Voting Machine.
- ✓ Car Parking Monitoring System.
- ✓ Automatic Surveillance Camera Panning System from PC
- ✓ Automatic Wireless Health Monitoring System in Hospitals for Patients
- ✓ Beacon Flasher Using Microcontroller

- ✓ Bidirectional Rotation of an Induction Motor with a Remote Control Device
- ✓ BLDC Motor Speed Control with RPM Display
- ✓ Cell Phone Based DTMF Controlled Garage Door Opening System
- ✓ Cell Phone Controlled Robotic Vehicle
- ✓ Closed Loop Control for a Brushless DC Motor to Run at the Exactly Entered Speed
- ✓ Cyclo Converter Using Thyristors
- ✓ Density Based Traffic Signal System
- ✓ Detecting Power Grid Synchronization Failure on Sensing Frequency or Voltage Beyond Acceptable Range
- ✓ Discotheque Light Stroboscopic Flasher
- ✓ Dish Positioning Control by IR Remote
- ✓ Display of Dialed Telephone Numbers on Seven Segment Displays
- ✓ Distance Measurement by Ultrasonic Sensor
- ✓ DTMF Based Load Control System

- ✓ FACTs (flexible ac transmission) by TSR
- ✓ FACTs by SVC (flexible ac transmission)
- ✓ Fire Fighting Robotic Vehicle
- ✓ Flash Flood Intimation Over GSM Network
- ✓ Four Quadrant DC Motor Speed Control with Microcontroller
- ✓ GSM Based Energy Meter Reading with Load Control
- ✓ GSM Based Monthly Energy Meter Billing via SMS
- ✓ Industrial Battery Charger by Thyristor Firing Angle Control
- ✓ Industrial Power Control by Integral Cycle Switching without Generating Harmonics
- ✓ Integrated Energy Management System Based on GSM Protocol with Acknowledgement Feature
- ✓ IR Controlled Robotic Vehicle
- ✓ IR Obstacle Detection to Actuate Load
- ✓ Lamp Life Extender by ZVS (Zero Voltage Switching)

- ✓ Life Cycle Testing of Electrical Loads by Down Counter
- ✓ Microcontroller Based Line Following Robotic Vehicle
- ✓ Design and Implementation of Metal Detector Robotic Vehicle
- ✓ Automatic Door Opening System with Movement Sense
- ✓ Networking of Multiple Microcontrollers
- ✓ Microcontroller based Non Contact Tachometer
- ✓ Object Counter with 7 Segment Display using Microcontroller
- ✓ Object Detection using Ultrasonic Sensor
- ✓ Obstacle Avoidance Robotic Vehicle
- ✓ Optimum Energy Management System
- ✓ Parallel Telephone Lines with Security System
- ✓ Password Based Circuit Breaker
- ✓ PC Based Electrical Load Control
- ✓ PC Controlled Scrolling Message Display for Notice Board

- ✓ Pick N Place with Soft Catching Gripper
- ✓ Portable Programmable Medication Reminder
- ✓ Power Saver for Industries & Commercial Establishments
- ✓ Pre Stampede Monitoring and Alarm System
- ✓ Precise Digital Temperature Control
- ✓ Precise Illumination Control of Lamp
- ✓ Predefined Speed Control of BLDC Motor

