

Innovative EEE Final projects list

SET-04. Construction of Central Control Unit for Irrigation water pumps. Cost effective method to control entire villager's water pumps with user level authentication. Illiterate's friendly system.

SET-340. MAXIMUM DEMAND CONTROLLER & FAULT ALERTING FOR INDUSTRIES.

SET-176. Petrochemical Level Indicator and Controller for Automation of cotton purification process in spinning mills.

SET-278. AUTONOMOUS ENERGY METER WITH AUTO ANNOUNCEMENT SYSTEM

SET-210. Data logger for energy meter with time and KWH readings. Very useful for historical data logging and analysis

SET-292. POWER GRID devices monitoring and controlling system using GSM technology

SET-296. Wireless power theft monitoring with automatic circuit breaker system and indication at local substations

SET-238. Energy Tapping Identifier through Wireless Data Acquisition System

SET-343. FOOT STEP POWER GENERATION SYSTEM.

SET-319. Design and construction of Earth fault relay for single phase power system

SET-240. Machinery access control system for illiterates with image based password with Touch screen

SET-346. Hall-effect sensor based wheel chair movement control using tongue

SET-332. Hall Effect sensor based non-contact Tachometer for electrical motors speed measurement

SET-323. Frequency Locked Loop (FLL) Motor speed monitoring and control system

SET-328. Electrical Data (voltage, current, frequency, temperature) Logger

SET-287. Energy meter data logging system with Real-time clock and KWH readings. Very useful for historical data logging and analysis

SET-119. A Novel Wireless Self-powered Microcontroller-based Monitoring Circuit for Photovoltaic Panels in Grid-connected Systems

SET-126. Wireless 3 Phase Motor Starter using RF Technology with feedback indicators.

SET-125. Checking & Auto Control Water Level Using Wireless Sensor.

SET-248. MMC/SD key security system for industrial machinery access

SET-247. Speech recognition based password enabled industrial devices switching

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- SET-22.** Wearable Technology based secure access control system with motion based password.
- SET-220.** GPRS based real time electrical data logger onto live website (www.sooxma.com) with SMS based real time device control
- SET-66.** GSM based SCADA and 2GB MMC card based data logger with real time monitoring.
- SET-72.** Industrial appliances monitoring and controlling system using GSM with fencing auto alerts.
- SET-35.** Touch screen controlled AC motor speed controlling system.
- SET-344.** Touch screen based industry automation with door controlling
- SET-342.** Finger print and keypad based industrial security access control system
- SET-73.** High Power LED based intelligent streetlight controlling system with GSM based Vehicle Counter.
- SET-80.** Dual GSM Modems based irrigation water pump controller for illiterates.
- SET-81.** Security Integrated system based on wireless access protocol for industrial applications with SMS alert system using GSM modem
- SET-307.** 3-phase irrigation water pump controller for illiterates using dual GSM Modems
- SET-74.** Mobile technology (GSM) based remote monitoring and control of digital Energy Meter.
- SET-304.** Intelligent irrigation water system controlling system with GSM technology and soil moisture sensor
- SET-273.** Self-Monitored Industrial Appliance Monitoring System and remote data acquisition
- SET-64.** Real-time home/industry automation based on GSM and wireless zigbee.
- SET-71.** SMS Based DC Motor Speed Controller with password protection.
- SET-186.** Bluetooth Energy Meter.
- SET-285.** An On-line Monitoring System of Temperature of Conductors and Fittings Based on GSM SMS and Zigbee
- SET-23.** Intelligent train security system and auto controlling.
- SET-318.** High voltage fuse blown indicator with display on PC with optical isolation between PC and HV bus bars
- SET-281.** Method of Measuring Power Quality and Development of Monitor Device
- SET-212.** RF transceiver (Zigbee/X-Bee) based energy meter monitoring system. (Energy Meter reading on PC over wireless comm.)
- SET-350.** USING MOBILE ROBOTS TO HARVEST DATA FROM SENSOR FIELDS

- SET-349.** Omni Directional Robot with GSM Connectivity for Remote Access.
- SET-250.** Call Based industrial automation
- SET-08.** Head movement based voice enabled wireless device switching for physically challenged
- SET-239.** Advanced wireless industrial automation system based on Bluetooth
- SET-241.** Wearable Technology based secure access control system with motion based password for industrial automation
- SET-187.** Google Android Smart phone operated Motor Control System.
- SET-188.** Android operated Intelligent 230v AC Lamp Dimmer.
- SET-189.** Smart phone based data logger
- SET-184.** Bluetooth based security enabled powered devices control system.
- SET-345.** Voice activated multi purpose robot
- SET-218.** Android based real time lamp dimmer over blue tooth.
- SET-165.** Gas leakage detector & auto dialing controller system
- SET-279.** Resistive Touch screen controlled contact less speed monitoring and controlling of dc motor with speed limit alerts
- SET-220.** GPRS based real time electrical data logger onto live website (www.sooxma.com) with SMS based real time device control

TOUCH SCREEN BASED PROJECTS

- SET-25.** Talking Touch Home (TTH).
- SET-344.** Touch screen based industry automation with door controlling
- SET-35.** Touch screen controlled AC motor speed controlling system.
- SET-37.** Touch screen controlled lamp dimmer for next generation apartments.
- SET-301.** Touch screen based advanced industrial/power grid automation system (wired)
- SET-303.** Touch screen based advanced industrial/power grid automation system (wireless)
- SET-313.** Touch Screen based Industrial digital devices control system. This project is to build a Graphical LCD Touch Screen interface for switching electrical devices. The controlled devices can be of high voltage or low voltage
- SET-315.** 4-wired resistive touch screen controlled lamp dimmer for next generation apartments with Optical isolation and zero crossing detectors

- SET-325.** Touch screen operated industrial oil dispensing system (OIL SCADA)
- SET-263.** Touch screen operated password protected liquid dispensing system
- SET-38.** Touch screen operated Volumetric Oil Dispenser.
- SET-39.** Touch screen based temperature monitoring and control system with graphical LCD.
- SET-305.** Touch Screen based advanced steal industry oven temperature monitoring and control system
- SET-279.** Resistive Touch screen controlled contact less speed monitoring and controlling of dc motor with speed limit alerts
- SET-240.** Machinery access control system for illiterates with image based password with Touch screen

GSM and GPRS TECHNOLOGY BASED PROJECTS

- SET-58.** GPRS based real-time Home/Industrial critical devices status information logger into www.sooxma.com.
- SET-217.** GSM based Domestic/Industrial Energy meter billing system
- SET-219.** GPRS (Web) based Energy Meter real time Energy Meter monitoring system
- SET-220.** GPRS based real time electrical data logger onto live website (www.sooxma.com) with SMS based real time device control
- SET-69.** GSM based SCADA implementation for industrial applications with IR sensor.
- SET-73.** High Power LED based intelligent streetlight controlling system with GSM based Vehicle Counter.
- SET-74.** Mobile technology (GSM) based remote monitoring and control of digital Energy Meter.
- SET-79.** GSM based SCADA (Supervisory Control and Data Acquisition) implementation.
- SET-80.** Dual GSM Modems based irrigation water pump controller for illiterates.
- SET-81.** Security Integrated system based on wireless access protocol for industrial applications with SMS alert system using GSM modem
- SET-307.** 3-phase irrigation water pump controller for illiterates using dual GSM Modems
- SET-63.** A mobile agent based distributed intelligent control system architecture for home automation
- SET-312.** Intelligent dam/reservoir water monitoring and control system based on GSM

- SET-268.** Monitoring and controlling of temperature at threshold value using GSM technology
- SET-304.** Intelligent irrigation water system controlling system with GSM technology and soil moisture sensor
- SET-273.** Self-Monitored Industrial Appliance Monitoring System and remote data acquisition
- SET-64.** Real-time home/industry automation based on GSM and wireless zigbee.
- SET-66.** GSM based SCADA and 2GB MMC card based data logger with real time monitoring.
- SET-67.** A Remote Measurement and Control System for Greenhouse Based on GSM-SMS.
- SET-71.** SMS Based DC Motor Speed Controller with password protection.
- SET-72.** Industrial appliances monitoring and controlling system using GSM with fencing auto alerts.
- SET-165.** Gas leakage detector & auto dialing controller system
- SET-85.** Microcontroller Based Thermometer and SMS based alerts.
- SET-87.** 3-phase irrigation motor monitoring and Auto-controlling based on GSM technology.
- SET-88.** Prepaid energy meter using GSM.
- SET-89.** Temperature based Fan Speed Controller and SMS alerts using GSM modem.
- SET-90.** UPS battery monitoring system over GSM for high availability systems (banking/finance/medical etc).
- SET-211.** Control powered devices with mobile phone for free of cost. This secure system works only for predefined phone numbers (eg: owner number)
- SET-289.** Real-time monitoring System of Temperature of Conductors and Fittings Based on GSM SMS and Zigbee
- SET-292.** POWER GRID devices monitoring and controlling system using GSM technology
- SET-306.** Motor speed monitors and control system using GSM modem
- SET-314.** Street Light monitoring and control system using GSM based mobile phone
- SET-333.** GSM based wireless Substation Fuse blown Indicator
- SET-288.** Energy meter monitoring and control system using SMS technology
- SET-286.** On-line Monitoring System of Transmission Line Conductor parameters
- SET-276.** AUTOMATIC POWER FACTOR CORRECTOR USING CAPACITIVE LOAD BANK.
- SET-272.** GSM based energy meter monitoring with display on PC and mobile
- SET-271.** Industrial gas leakage detector & auto dialing controller system

- SET-266.** GSM based industrial device security system based on RFID
- SET-257.** Industrial security System based on LPG gas, Smoke and Fire Sensors with SMS based alerts
- SET-258.** GSM based SCADA (Supervisory Control and Data Acquisition) implementation
- SET-259.** Dual GSM Modems based irrigation water pump controller for illiterates.
- SET-256.** Automatic power meter reading using GSM network
- SET-246.** Industrial temperature and Electrical data into 2GB MMC with real time monitoring using GSM technology
- SET-245.** Real-time industrial automation based on GSM and wireless Zigbee
- SET-243.** Online data logging of device status and temperature using GPRS
- SET-244.** A mobile - agent based distributed intelligent control system architecture for industrial automation
- SET-242.** GSM based SCADA implementation for industrial applications with fencing security system
- SET-291.** Multiple Transformers oil temperature monitoring with automatic circuit breaker operation with SMS based alerts

RFID BASED PROJECTS

- SET-04.** Construction of Central Control Unit for Irrigation water pumps. Cost effective method to control entire villager's water pumps with user level authentication. Illiterate's friendly system.
- SET-97.** Vehicle count and Speed Display System for High ways and high speed alerts with vehicle number using RFID.
- SET-105.** RFID based Highway toll collection
- SET-106.** RFID based Shopping trolley.
- SET-108.** A smart card based prepaid electricity system.
- SET-109.** RFID based automatic car parking system.
- SET-110.** RFID based animal tracking system.
- SET-111.** RFID based prepaid card for petrol station.
- SET-112.** RFID based medical information system.
- SET-335.** Auto-Credit Energy Metering System using mifare card

WIRELESS TECHNOLOGY BASED PROJECTS

- SET-212.** RF transceiver (Zigbee/X-Bee) based energy meter monitoring system. (Energy Meter reading on PC over wireless comm.)
- SET-117.** Wireless vibration monitoring system of industrial equipments (Also useful for bridges monitoring).
- SET-118.** Implementation of wireless sensors network for Wild Fire monitoring system.
- SET-119.** A Novel Wireless Self-powered Microcontroller-based Monitoring Circuit for Photovoltaic Panels in Grid-connected Systems
- SET-120.** Wireless Temperature Sensor Integrated Circuits
- SET-122.** Development of Zigbee based Street Light
- SET-290.** Smart Wireless Temperature Data Logger
- SET-295.** Wireless power meter monitoring system with automatic tariff calculation on handheld device
- SET-296.** Wireless power theft monitoring with automatic circuit breaker system and indication at local substations
- SET-298.** Speed and direction control of dual stepper motors using ZIGBEE Technology
- SET-299.** Industrial/power grid electrical parameter Data Acquisition system through wireless technology
- SET-302.** RF transceiver based wireless Electrical Devices monitoring and controlling system
- SET-309.** Zigbee based wireless Energy Meter reading and logging system on PC
- SET-308.** Energy Meter reading system on Graphical LCD using Zigbee based wireless communication
- SET-311.** Wireless Energy Meter reading on hand-help device based on RF Transceiver
- SET-324.** Wireless electrical devices monitoring and controlling system for industrial applications
- SET-327.** Implementation of wireless sensors network based industrial temperature monitoring system
- SET-283.** A Wireless Data Acquisition and Transmission System Design
- SET-284.** SCADA implementation based on wireless RF technology
- SET-278.** Wireless Energy Meter reading on hand-held device based on RF

- SET-123.** Train automation using RF with voice annunciator for the stations
- SET-125.** Checking & Auto Control Water Level Using Wireless Sensor.
- SET-126.** Wireless 3 Phase Motor Starter using RF Technology with feedback indicators.
- SET-127.** Accident identification project using RF.
- SET-129.** Microcontroller based Wireless matchbox with digital lantern.
- SET-133.** Wireless Stepper Motor Control using RF Communication.

ROBOTIC PROJECTS

- SET-05.** Voice operated intelligent Lift or Elevator
 - SET-350.** USING MOBILE ROBOTS TO HARVEST DATA FROM SENSOR FIELDS
 - SET-349.** Omni Directional Robot with GSM Connectivity for Remote Access.
 - SET-224.** Smart phone Android Operated Robot
 - SET-225.** Android phone Accelerometer sensor based Robot Navigator
 - SET-216.** Zigbee controlled Boat with wireless video and voice transmission with night vision capability
 - SET-135.** Zigbee based remote controlled robot with wireless video camera mounted on it.
 - SET-136.** Designing painting robot using spray gun tool.
 - SET-137.** Designing and construction of Movable robotic arm.
 - SET-138.** Solar Powered Vehicle/Car with ultrasonic sensors (LCD voltage display).
 - SET-139.** MEMS Accelerometer based Hands Gesture controlled Robot
 - SET-203.** 3 G Mobile phone controlled live human being detection
 - SET-140.** Touch screen based remote controlled robot with video camera.
 - SET-141.** Head-movement controlled robot with voice and with video camera.
 - SET-142.** Fire fighting ROBO.
 - SET-143.** ROBO leg for physically challenged.
 - SET-144.** Hand Gestures controlled Intelligent Wheelchair.
 - SET-145.** MEMS controlled robot with wireless video camera mounted on it.
 - SET-146.** DTMF controlled Live Human Being Detection with and video camera mounted on it.
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- SET-147.** Robot Control by PC with Head Lamp and Night Vision.
- SET-148.** Microcontroller based Visible Light Follower Robot
- SET-149.** DTMF based human less boat control for ocean research applications.
- SET-150.** Mobile phone controlled four-legged walking robot with speed and direction control.
- SET-151.** PC controlled wireless Robot with live human detection.
- SET-152.** Micro Electro Mechanical Sensor (MEMS) Accelerometer based self-balancing robot.
- SET-153.** Live Human being detection wireless remote controlled Robot. (Useful for detection of terrorists hiding inside buildings)
- SET-154.** Radio Frequency based remote controlled robot with wireless video camera mounted on it.
- SET-155.** Autonomous Robot with artificial vision for obstacle detection.
- SET-156.** DTMF controlled live human being detecting ROBO.
- SET-233.** Line Follower Robot
- SET-234.** Wall Follower Robot
- SET-235.** Obstacle detection robot with mechanical sensing switches
- SET-347.** Bomb detecting robot with metal detection sensor.
- SET-348.** Mine detecting robot with help of proximity sensors.

Other Embedded projects

- SET-341.** Automatic LDR based window blind control system.
- SET-161.** MMC/SD card key security system for machinery access.
- SET-163.** Solar Tracking Street Light System.
- SET-164.** Call based industrial Appliance Controller
- SET-166.** DTMF controlled soil-moisture sensor.
- SET-167.** Safety implementation for 3-phase irrigation motor using Soil-moisture sensor and temperature sensor.
- SET-169.** PC Controlled Industrial Devices with 8-relay board.
- SET-170.** Feedback Controlled Devices with Advance Security using Mobile Phones.
- SET-171.** Microcontroller based Multiple Device Control based on one Input Switch.
- SET-172.** Design of Coffee Cup for Alerting (Vibrations & buzzer) Blind People.
- SET-173.** Microcontroller based Bank Lockers Safety System using Digital Key Password with Door Access Facility.
- SET-174.** Secure Password Protected Bank Locker Controlling using Mobile Technologies.
- SET-175.** Automatic Active Phase selector for single phase load from three phase supply.
- SET-177.** Infrared (IR) remote controlled Muscle Stimulator with duration and intensity control.
- SET-192.** Sooxma's Android phone temperature data logger over blue tooth
- SET-193.** Smart card based prepaid Energy Meter for short term resident housing
- SET-195.** CAN protocol enable multi-region monitoring and control system
- SET-206.** RS485 based SCADA system for longer distance powered devices.
- SET-215.** Speech recognition system based powered devices control system
- SET-228.** Solar data logger into MMC/SD Memory Card
- SET-236.** Real-time Car battery monitoring and low voltage alert system
- SET-237.** Digital RPM Indicator for Electrical Motor with Over speed alarm Indicator
- SET-251.** Transformer oil temperature monitoring with automatic Circuit Breaker operation

- SET-274.** Wireless DC Motor Speed and Direction Control using IR (PWM)
- SET-277.** Password enabled pre-paid liquid/milk dispensing system
- SET-280.** Controlling AC lamp Dimmer through Mobile Phone
- SET-282.** Mobile phone controlled password protected Industrial Rolling mills Motor speed and direction control system
- SET-336.** A multi agent multi sensor based security system for intelligent building
- SET-334.** IR Remote controlled Irrigation water pump controller with single phasing protection
- SET-331.** Microcontroller based refrigeration control system
- SET-330.** Pulse Width Modulation (PWM) based DC Motor Closed loop Speed Controller
- SET-329.** Solar Tracker with Stepper Motor Control
- SET-326.** Dual (active and standby) Lithium-ion battery charger for continuous non-interrupted power supply to critical loads
- SET-322.** Timer based automatic power cutoff for industrial sealing/packaging machines
- SET-321.** Timer based Electrical Oven temperature monitoring and control for Metal Industries
- SET-320.** DC Motors speed synchronization for rolling mills. (With two motors with display on LCD)
- SET-317.** High voltage fuse blown indicator with Voice based announcement system
- SET-316.** Hazardous chemical valve control system with stepper motor and RC5 remote control
- SET-310.** Energy conservation system for corporate computers and lighting systems using PIR
- SET-300.** Multiple industrial Device Control in industry based on Change in Input Frequency
- SET-297.** Advanced Substation monitoring and control system
- SET-294.** Microcontroller based automatic single phasing preventing system for 3-phase industrial Motors
- SET-293.** Automatic irrigation water control system with moisture sensor and sprinkler control

Mat lab projects

- SMT1.** POWER UPGRADING OF TRANSMISSION LINE BY COMBINING AC-DC TRANSMISSION
- SMT2.** SIMULINK IMPLEMENTATION OF INDUCTION MACHINE MODEL – A MODULAR APPROACH
- SMT3.** SENSORLESS SPEED ESTIMATION OF INDUCTION MOTOR IN A DIRECT TORQUE CONTROL SYSTEM
- SMT4.** A 24 PULSE AC-DC CONVERTER EMPLOYING A PULSE DOUBLING TECHNIQUE FOR VECTOR CONTROLLED INDUCTION MOTOR DRIVES.
- SMT5.** SIMULATION OF A SPACE VECTOR PWM CONTROLLER FOR A THREE LEVEL VOLTAGE FED INVERTER MOTOR DRIVE.
- SMT6.** POWER FACTOR CORRECTION USING A SERIES ACTIVE FILTER.
- SMT7.** DIRECT TORQUE CONTROL OF A THREE PHASE INDUCTION MOTOR USING HYBRID PI/FUZZY CONTROLLER.
- SMT8.** POWER QUALITY ANALYSIS OF TRACTION SUPPLY SYSTEM WITH HIGH SPEED TRAIN.
- SMT9.** REDUCED RATING VSC WITH A ZIG-ZAG TRANSFORMER FOR CURRENT COMPENSATION IN A THREE PHASE FOUR WIRE DISTRIBUTED SYSTEM.
- SMT10.** A FUZZY LOGIC CONTROLLER FOR SYNCHRONOUS MACHINE.
- SMT11.** EIGHTEEN-PULSE AC-DC CONVERTER FOR HARMONIC MITIGATION IN VECTOR CONTROLLER INDUCTION MOTOR DRIVE.
- SMT12.** MATLAB BASED SIMULATION OF TCSC FACTS CONTROLLER.
- SMT13.** A NOVEL METHOD OF LOAD COMPENSATION UNDER UNBALANCED AND DISTORTED VOLTAGES.
- SMT14.** MATLAB/SIMULINK IMPLEMENTATION FOR REDUCING THE MOTOR DERATING AND TORQUE PULSATION OF INDUCTION MOTOR USING MATRIX CONVERTER.
- SMT15.** HVDC CONTROL SYSTEM BASED ON FUZZIFIED INPUT PERCEPTRON.
- SMT16.** A NEW CONCEPT OF MULTILEVEL STATCOM BASED ON CASCADE TOPOLOGY.

SMT17. A PARALLEL-CONNECTED SINGLE PHASE POWER FACTOR CORRECTION APPROACH WITH IMPROVED EFFICIENCY.

SMT18. DESIGN AND IMPLEMENTATION OF A SHUNT ACTIVE POWER FILTER WITH REDUCED DC LINK VOLTAGE.

SMT19. ANALYSIS AND IMPLEMENTATION OF THYRISTOR-BASED STATCOM.

SMT20. A THREE PHASE THREE SWITCH TWO LEVEL PWM RECTIFIERS.

SMT21. DESIGN AND ANALYSIS OF UPFC.

SMT22. TRANSIENT STABILITY ANALYSIS WITH PSS USING SVC

