

# Innovative ECE Final projects list

## IEEE-2012-13 papers

### Technologies:

1. ARM-7 TDMI - LPC-2148
2. Image Processing
3. MATLAB – Embedded
4. GPRS –Mobile internet
5. Touch screen.
6. Global Positioning System (GPS) technology.
7. GSM technology.
8. MMC/SD card with FAT-16 & FAT-32 file system
9. MEMS accelerometer.
10. RFID/ Smart card.
11. ROBOTICS.
12. Speech recognition.
13. Finger print recognition.
14. Controller Area Network (CAN) protocol.
15. RS-485.
16. Google Android mobile OS.
17. Bio – Medical Engineering.
18. Heartbeat sensor.
19. Wi-Fi
20. Bluetooth technology.
21. RF Communication.
22. Zigbee.
23. Ethernet
24. USB interface
25. Digital Compass

## **ECE Final projects list**

- SET-657.** Voice recognition based wireless home automation with intensity control – (2011)
- SET-604.** Design of Emergency Remote Security Monitoring and Control System Based on ARM – (2012)
- SET-659.** Short Range Personal Radar with Audio video transmission
- SET-434.** Design of a low cost helmet mounted dead reckoning navigation system.
- SET-466.** Autonomous Mobile Platform II with artificial intelligence using digital compass and GPS
- SET-641.** Genetic-Based Biometric Security System for Wireless Sensor-based Health Care Systems (2012)
- SET-419.** Solar Tracker Robot using Microcontroller. (2011)
- SET-377.** Universal remote controller with haptic interface for customer electronic devices(2011)
- SET-597.** A Reliable Transmission Protocol for ZigBee-Based Wireless Patient Monitoring (2012)
- SET-598.** Safety Benefits of Forward Collision Warning Brake Assist, and Autonomous Braking Systems in Rear-End Collisions (2012)
- SET-606.** Design of Intelligent Home Appliance Control System Based on ARM and ZigBee (2012)
- SET-607.** A WiFi based Smart Wireless Sensor Network for Monitoring an Agricultural Environment (2012)
- SET-628.** Creating Innovation with Systems Integration –Road and Vehicle Integrated Electric Transportation System (2012)
- SET-609.** Wireless Sensor Network Based Home Monitoring System for Wellness Determination of Elderly (2012)
- SET-631.** The Monitoring System design Of Harmful Gas inside Special Vehicle (2012)
- SET-632.** Wireless Black Box Using MEMS Accelerometer and GPS Tracking for Accidental Monitoring of Vehicles (2012)
- SET-18.** Touch screen based advanced menu display and Ordering System for Restaurants
- SET-638.** HAWK: An unmanned mini helicopter-based aerial wireless kit for localization (2012)
- SET-639.** Accelerometer-based Body Sensing for Healthy Aging (2012)
- SET-640.** An Indoor Navigation Approach to Aid the Physically Disabled People (2012)

- SET-642.** Fall Detection by Built-In Tri-Accelerometer of Smart phone (2012)
- SET-643.** A design of a prototypic Hand-Talk Assistive Technology for the Dumb
- SET-644.** Embedded System Integrated Into a Wireless Sensor Network for Online Dynamic Torque and Efficiency Monitoring in Induction Motors (2012)
- SET-645.** Design and Implementation of Intelligent Energy Distribution Management with Photovoltaic System (2012)
- SET-627.** Field Variables Monitoring in real time (GPS, soil moisture, temperature) with Precision Farming Applications (2012)
- SET-629.** Aided Navigation Techniques for Indoor and Outdoor Unmanned Vehicles (2012)
- SET-630.** Issues and Challenges of Wireless Sensor Networks Localization in Emerging Applications – (2012)
- SET-594.** An Embedded Real-Time Finger-Vein Recognition System for Mobile Devices (2012)
- SET-595.** Wireless System for Monitoring and Real-Time Classification of Functional Activity (2012)
- SET-596.** Safe Driving Using Mobile Phone (2012)
- SET-647.** Selective Device Activation for Power Reduction in Accelerometer-Based Wearable Guidance Systems for the Blind (2012)
- SET-649.** A Distributed Wireless Body Area Network for Medical Supervision (2012)
- SET-648.** A Zigbee-Based Wearable Physiological Parameters Monitoring System (2012)
- SET-625.** Automatic ambulance rescue system (2012)
- SET-626.** Design of Concealed Alarm System Based on GSM (2012)
- SET-588.** Robot to rescue of a child in a borehole
- SET-589.** Risk Awareness System in Railway and Environment Control
- SET-590.** An Accelerometer-Based Digital Pen with a Trajectory Recognition Algorithm for Handwritten Digit and Gesture Recognition (2012).
- SET-591.** MEMS Accelerometer Based Nonspecific-User Hand Gesture Recognition (2012)
- SET-592.** Multisensor Railway Track Geometry Surveying System (2012)
- SET-593.** A Mixed Filtering Approach for Track Condition Monitoring Using Accelerometers on the Axle Box and Bogie (2012)
- SET-599.** A new collision warning system for lead vehicles in rear-end collisions (2012)
- SET-600.** Human Postures Recognition Based on D-S Evidence Theory and Multi-sensor Data Fusion

- SET-601.** Sensor and network technology for intelligent transportation systems **(2012)**
- SET-602.** A Novel Cost-Effective Portable Electronic Nose for Indoor-/In-Car Air Quality Monitoring **(2012)**
- SET-603.** Sensor Network Based Oilwell Health Monitoring and Intelligent Control **(2012)**
- SET-605.** Mobile application as a tool for urban traffic data collection and generation to Advanced Traveler Information Systems using Wi-Fi networks available in urban centers – **(2012)**
- SET-612.** A Low-Cost Hand Gesture Human-Computer Interaction System **(2012)**
- SET-613.** Using Cellular Automata on Recommendation Mechanism for Smart Parking in Vehicular Environments **(2012)**
- SET-614.** Overview for Solid Waste Bin Monitoring and Collection System
- SET-615.** A System for Mobile Assisted Living **(2012)**
- SET-616.** The domesticated robot: Design guidelines for assisting older adults to age in place. **(2012)**
- SET-617.** A Solution For Reallocating Public Bike Among Bike Stations **(2012)**
- SET-618.** Robot Navigation System with RFID and Sensors **(2012)**
- SET-619.** Low-Cost, High-Accuracy, State Estimation for Vehicle Collision Prevention System – **(2012)**
- SET-650.** Centralized Heart Rate Monitoring Telemetry System Using ZigBee Wireless Sensor Network **(2012)**
- SET-651.** Ultrasonic Spectacles and Waist-belt for Visually Impaired and Blind Person **(2012)**
- SET-621.** Robust Railway Crack Detection Scheme (RRCDS) using LED-LDR Assembly **(2012)**
- SET-636.** An RFID Electronic Tag based Automatic Vehicle Identification System for Traffic IOT Applications **(2011)**
- SET-637.** Design of Vehicle positioning System Based on ARM **(2011)**
- SET-608.** A Novel Light-Sensor-Based Information Transmission System for Indoor Positioning and Navigation (IEEE-2011)
- SET-611.** Design and Implementation of Intelligent Urban Irrigation System. **(IEEE-2011)**
- SET-582.** Implementation of Tire Pressure Monitoring System with Wireless Communication. **(IEEE-2011)**
- SET-652.** A Cardiac Signal Monitoring and Processing System. **(IEEE-2011)**
- SET-573.** An Intelligent Blind Rod and Navigation Platform Based on ZigBee Technology **(IEEE-2011)**

**SET-575.**RFID and GPRS based intelligent courier mailbox system with automatic delivery notification.

**SET-494.** MATLAB GUI controlled Home/Industrial Automation

**SET-495.** Robot controlling using GUI and Audio Video capturing using MATLAB

**SET-496.** Heart beat signal monitoring on PC using MATLAB.

**SET-497.** Material handling robot controlling through wireless Zigbee using MATLAB.

**SET-498.** Fire detection and automatic controlling using Image processing.

**SET-499.** Fire detection based on Image processing with wireless video camera

**SET-500.** Automatic Image Resizing by seam carving

**SET-509.** Automated Vehicle safety system to avoid accidents

**SET-512.** Finger authentication based cash box opening and closing system

**SET-514.** Implementation of PC based Biological System

**SET-517.** PC driven speech recognition based wireless multipurpose Robot

**SET-518.** Solar induction motor driver

**SET-519.** Smart zone based Vehicle speed control system based on RF and DTMF

**SET-520.** Speed control of universal motor with automated ON load and OFF load sensing

**SET-521.** Solar tracking system with automated water pump controlling

**SET-522.** Touch screen based AC motor speed Monitoring and control system

**SET-523.** Touch screen based wireless AC motor speed Monitoring and control system

**SET-525.** Biometric Voting Machine

**SET-526.** Implementation of Tsunami Alert System

**SET-527.** Intelligent Transformer Isolation system using PC

**SET-529.** Construction of flying quad rotor with video surveillance system

**SET-531.** Intelligently navigable Robotic vehicle for Industries using compass and RFID

**SET-532.**An Artificial Land mark design based on mobile robot localization and navigation

**SET-534.**Collision avoidance radar operated LC substrate based MSP antenna in vehicular system

**SET-535.**Zigbee wireless vehicular Identification and authentication system

**SET-536.**Embedded based web server for wireless sensor network

- SET-537.Zigbee based Spy robot
- SET-538.Electronic Passport using RFID
- SET-539.RFID based instantaneous vehicle registration details extraction system
- SET-540.War field wireless spying Robot with live human and explosive detection having sharp shooting weapon
- SET-541.Intruder Tracking Using Wireless Sensor Networks
- SET-542.Real time automization of Indian Agricultural system
- SET-543.RFID based Airport Luggage Security System
- SET-544. An Early Warning System Based on Reputation for Energy Control Systems (2011)
- SET-545.RFID based blind navigation system with voice alert system
- SET-547.Ultrasonic Target Estimation Using Sonar Technology
- SET-548.Ultrasonic Target Range Estimation and Obstacle detection Robot
- SET-549.User independent voice commands based robot control with remote voice and image transmission
- SET-550.Zigbee based helmet design for coal mines
- SET-551.Finger print based Student identification with RFID based library automation
- SET-552.Industrial Monitoring with Android Mobile Application using Wi-Fi
- SET-553.Implementation of Cryptography on PC using Zigbee
- SET-554.Microcontroller based Environmental Control for Swiftlet Nesting with SMS Notification
- SET-555.Priority based power distribution system
- SET-556.Advanced and Intelligent wheel chair control system for leg amputees using Joystick
- SET-557.Landmine detection and location finding mobile android system
- SET-558.Automated Solar Street lighting system using LED's
- SET-560.Robot controlling wirelessly through Wi-Fi technology
- SET-561.FAMPER robot with Video transmission and head lamp vision
- SET-562.Artificial vision systems for the blind using ultrasonic wave
- SET-563.Image based Calling system for heart beat patients with Heart beat monitoring
- SET-564.Interactive Voice Response System

- SET-565.**Intruder detection and wireless alerting using RFID and burglar alarm
- SET-566.**Real Time Implementation and Processing of an Adept Urban Irrigation system
- SET-567.**Vehicle Anti collision using Ultrasonic signals
- SET-568.**Automatic Head light Intensity control for vehicles to avoid accidents
- SET-569.**Cost Effective attendance based on RFID and bidirectional visitor counter
- SET-570.**Warmer for Blood Infusion
- SET-571.**Design of low cost temperature control system for solar cell lamination machine
- SET-572.**Object distance tracking system
- SET-573.**An Intelligent Blind Rod and Navigation Platform
- SET-577.**Design and Realization of Augmented Reality based Navigation Assistance System
- SET-578.**Embedded based Wireless Neuron-Muscular Stimulator with Intensity Control
- SET-579.**Friendly home automation system using J2ME with voice messages
- SET-580.**Wireless sensing robot with Eight DC motors
- SET-581.**Security Management System for Oilfield Based on Zigbee Wireless Communication
- SET-586.** Weapon Authentication & Control system based on wireless
- SET-434.** Design of a low cost helmet mounted dead reckoning navigation system.
- SET-493.** Wireless Talking Touch Home
- SET-486.** PC controlling wirelessly using tongue motion
- SET-488.** Real-time pantry information system using ZigBee
- SET-489.** Tongue driven speaking wheel chair with wireless device control
- SET-492.** Voice operated Fire extinguisher vehicles with water jet spray
- SET-374.** Wireless enabled valve opening and closing system that works only at specific locations on earth (Using GPS)
- SET-199.** Location aware mobile phone signal strength logger into 2GB memory card (MMC/SD/Micro SD)
- SET-462.** Design and construction of voice operated mobile phone for people with no hands.
- SET-467.** Touch Screen based communication assistant in Airlines using high speed CAN communication
- SET-377.** Universal remote controller with haptic interface for customer electronic devices

- SET-466.** Autonomous Mobile Platform II with artificial intelligence using digital compass and GPS
- SET-68.** Electronic eye-dial-up.
- SET-469.** Tongue controlled speaking robot for paralyzed/physically handicapped persons.
- SET-410.** Advanced Electronic Voting Machine with real time implementation.
- SET-474.** PC controlled wireless Pick and Place Speaking Robot
- SET-367.** GPS and RF based indoor and outdoor navigation system.
- SET-364.** Gestures controlled Intelligent Wheel chair with device switching
- SET-368.** MEMS Accelerometer based Head movement controlled Firefight iRobot
- SET-362.** PC operated wireless War field Robot
- SET-361.** Intelligently Investigate Pipe-line Robot
- SET-359.** Home Security with Voice Alerts & Virtual Keypad Authentication
- SET-260.** Radar Velocity-measuring System Design and high speed alert intimation through SMS
- SET-01.** Design and development of Touch screen Mobile phone with GPRS features to store the contacts in to Predefined website permanently.
- SET-02.** Design and construction of MEMS based tilt operated touch free mobile phone useful for physically challenged/paralyzed persons.
- SET-08.** Head movement based voice enabled wireless device switching for physically challenged
- SET-09.** Touch screen and Zigbee based wireless communication assistant for Dumb and illiterates in Airlines
- 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-05.** Voice operated intelligent Lift or Elevator
- SET-343.** FOOT STEP POWER GENERATION SYSTEM.
- SET-346.** Wheel chair movement control using tongue
- SET-255.** GPS-GSM Integration for Enhancing Public Transportation management Services
- SET-398.** Location based vehicle speed controlling using RF
- SET-386.** Wireless device switching using user independent voice commands for blind persons.



- SET-352.** Design of Ultra Low Cost Cell Phone Based Embedded System for Irrigation
- SET-356.** Speech recognition Controlled wireless Pick and Place Robot
- SET-258.** Obstacle Avoidance and Manhole detection Electronic travel aid Robot for blind
- SET-07.** Graphical LCD and memory stick based tilt operated Textbook reading system
- SET-191.** Voice actuated hospital bed control system and Heart Beat monitoring and alerting system
- SET-14.** RFID and GSM based intelligent courier mailbox system with automatic delivery notification.
- SET-15.** Construction of Smart mobile phone with driving mode selection to avoid accidents.
- SET-17.** GPS and GSM based Real-time Human Health Monitoring and Alert System for Cardiac patients.
- SET-18.** Touch screen based advanced menu display and Ordering System for Restaurants.
- SET-21.** GPS based vehicle travel location data logger with 2GB MMC/SD Memory card.
- SET-158.** Voice commands based wheel chair for physically challenged.
- SET-345.** Voice activated multi purpose robot
- SET-480.** Design and development of mobile phone for multipurpose applications
- SET-485.** Next generation E voting system for blind using Touch screen
- SET-478.** Automatic brake comfort using ultrasonic sensor
- SET-482.** Evidence collection from car block boxes using
- SET-483.** Intelligently Navigable Robotic vehicle for Industries using compass and Magnetic crane
- SET-484.** Monitoring and alarming system based on Zigbee technology
- SET-487.** Pyroelectric IR sensor based security system using microcontroller
- SET-491.** Voice message announcement at multi points for 70sec using RF
- SET-477.** Automated and manual drilling machine
- SET-460.** Hand held device to control the home appliances and voice command announcements for dumb/Illiterates using one input pin of micro controller.
- SET-459.** Stimulation of paralyzed muscle using IR with intensity varying features.
- SET-421.** Pedestrian Navigation System with Fall Detection and Energy Expenditure Calculation.

- SET-458.** Remote patient monitoring system with GPRS Sooxma website.
- SET-371.** PC controlled flying machine for weather monitoring system
- SET-457.** Centralized energy meter for display distance at 30meters - Avoiding tampering of electrical energy meter in houses.
- SET-413.** GPS based Geo weather data logging in 2GB Memory card
- SET-427.** Designing of Programmable Drilling machine for depth controlling.
- SET-465.** Advanced Electronic Voting Machine using GPRS
- SET-431.** USB communication based SCADA on PC.
- SET-430.** PC Controlled Industrial Devices using USB communication.
- SET-435.** Advanced BMI Calculator with under and over weight alerts.
- SET-425.** Wireless electronic tourist guide system based on microcontroller.
- SET-423.** Computing Technology Used in Retrieval of Patient's Record.
- SET-420.** Heart-rate analyzer on color GLCD using ARM cortex.
- SET-419.** Solar Tracker Robot using Microcontroller.
- SET-461.** Closed loop pressure monitoring and controlling system using pressure sensor.
- SET-470.** Dual Security Access control system Using Finger Print and Keypad for Bank Locker
- SET-471.** Implementation of tire Pressure Monitoring System with wireless communication
- SET-440.** Activity monitoring system using Dynamic Time Warping for the elderly and disabled people.
- SET-438.** Ethernet Controlled Industrial Devices.
- SET-472.** MEMS Accelerometer controlled tilt sensing for Avionics applications
- SET-437.** Ethernet based medical parameters monitoring system.
- SET-454.** Servo Motor Control using mobile phone.
- SET-464.** Wireless electronic tourist self locator
- SET-473.** PC based Smart Wireless Temperature Data Logger using Zigbee Protocol
- SET-376.** Body movement recognition and alerting system based on Flex sensor
- SET-373.** Zigbee and PC controlled Notice Board LED display
- SET-372.** Wireless control of powered devices with tongue motion

- SET-360. Indoor wireless person tracking and voice enabled announcement system
- SET-453. Multi channel voltage scanner
- SET-452. Multi zone temperature monitoring with voice announcement system
- SET-451. Controlling of exhaust fan based on Smoke and Gas intensity in industries.
- SET-447. speed control of exhaust fan using RF remote
- SET-445. Protection of power transformer using microcontroller-based relay
- SET-444. Microcontroller based smart charge controller for standalone solar photovoltaic power systems
- SET-443. Intelligent Navigation Robot for industrial applications
- SET-463. Forest fire and rainfall monitoring system using GSM technology
- SET-442. Power Management using Bidirectional counter with maximum capacity alarm.
- SET-441. Solar based automatic water level sensing and water pumping system
- SET-439. Ethernet protocol based Automatic temperature measurement and control.
- SET-436. Ethernet protocol based SCADA on PC.
- SET-433. Memory card to pen drive data transfer made easy without PC.
- SET-432. Pen drive to pen drive data transfer made easy without PC.
- SET-429. USB communication based heart rate monitoring on PC.
- SET-428. USB communication Automatic temperature measurement and control.
- SET-426. A Hypertension Management System with Emergency Monitoring.
- SET-424. Low Power Scheduled Alarm System Using Embedded Microcontroller with USB Interface
- SET-422. Blood pressure blood glucose level monitoring on LCD.
- SET-416. Design and Implementation of intelligent Urban Irrigation System
- SET-415. Remote Controlled Screw Jack
- SET-414. Wireless Power Factor monitoring and controlling through PC
- SET-412. WiFi based Wireless Heart rate monitoring and alerting system
- SET-411. Intensive Care Unit (ICU) patients monitoring system with immediate action in emergencies using speech recognition and Zigbee technologies
- SET-409. WiFi based advanced Home Automation system

- SET-408. Hand talk using flex sensor
- SET-407. Industrial parameters monitoring and crane controlling using Zigbee
- SET-406. Transformer load sharing with SMS alerting.
- SET-405. TV remote based Attender calling system
- SET-404. Zigbee based power management system
- SET-403. GPRS based single phase fault monitoring and SMS alert
- SET-402. Design and construction of parabolic solar reflectors
- SET-401. Speech recognition based Wheel chair with elevated features
- SET-400. RFID based patient data monitoring
- SET-397. Multi-Purpose Advance Digital Code Lock System
- SET-396. Bank token number announce system
- SET-395. Water level indicator on LCD
- SET-394. I-Button & keypad based lock system
- SET-393. RFID based bus name announcement system
- SET-392. Tongue controlled speaking micro controller
- SET-391. I-Button & magnetic based lock system
- SET-390. Anti sleep alarm for students
- SET-389. Highly sensitive ear
- SET-388. DTMF 3-phase irrigation Control with Feedback
- SET-387. I-Button & keypad based DC motor door lock system
- SET-385. An internet based interactive embedded acquisition for real time applications
- SET-384. Braille Reader
- SET-383. Development of vision system to a humanoid Robot
- SET-382. Contemporary traveling system with voice alert
- SET-381. PC controlled multipurpose Robot
- SET-380. MEMS based Step Counter.
- SET-379. PC controlled wireless pick & place Robot with video camera
- SET-378. USB interfacing to PIC microcontroller for digital device controlling

- SET-375.** GPRS based SCADA with high Voltage, multi Sensors protection
- SET-370.** Touch screen based advanced automation system
- SET-369.** Solar power based industrial boiler controller with temperature display
- SET-366.** GPRS based SCADA implementation for industrial applications
- SET-365.** RFID based vehicle tracking and accident notification
- SET-363.** RF based advanced wireless home automation system
- SET-358.** Providing Group Tour Guide by RFIDs and Wireless Sensor Networks
- SET-351.** Wireless Fingerprint ACCESS CONTROL System Based on ZigBee Technology
- SET-03.** Construction of Intelligent mobile phone with GPS enabled features.
- SET-342.** Finger print and keypad based security access control system.
- SET-353.** Gesture controlled wireless spy Robo with video capture
- SET-354.** PC based Digital Notice Board with display on LCD using RS485 protocol
- SET-355.** Personalized area human positioning system
- SET-357.** Computer Controlled Wireless Pick and Place Robot
- SET-223.** Missile detection and auto destroy system
- SET-10.** Zigbee based wireless Voice to Text translator in Airlines/Hospital assistant system for blind/Illiterates.
- SET-11.** Wireless GPS travel location data logger using Bluetooth/Zigbee.
- SET-23.** Intelligent train security system and auto controlling
- SET-13.** Smart Card and GPS based automatic bus ticketing system for traveled distance.
- SET-16.** Cardiac Sentinel: A smart GSM based embedded solution for continuous remote monitoring of cardiac patients.
- SET-19.** Touch screen and Zigbee based advanced automation system for next generation apartments.
- SET-20.** Advanced Vehicle Security System with Theft control and Accident Notification.
- SET-157.** Speech recognition based password enabled device switching for blind and physically challenged.
- SET-159.** MEMS Accelerometer controlled PC.
- SET-184.** Bluetooth based security enabled powered devices control system.

**SET-22.** Wearable Technology based secure access control system with motion based password.

**SET-198.** Speech recognition based wheel chair operation and wireless home devices control system

## **TOUCH SCREEN BASED PROJECTS**

**SET-467.** Touch Screen based communication assistant in Airlines using high speed CAN communication

**SET-377.** Universal remote controller with haptic interface for customer electronic devices

**SET-468.** Solar-Assisted wireless communication assistant for Dumb/Illiterates in Airlines

**SET-25.** Talking Touch Home (TTH).

**SET-26.** Microcontroller and Zigbee based wireless chat/communication system with Touch screen keyboard.

**SET-27.** Touch screen and Smart Card based prepaid Ticket booking system with automatic seat allocation.

**SET-194.** Microcontroller and Touch screen based wireless library book catalog system

**SET-344.** Touch screen based home automation with door controlling.

**SET-01.** Design and development of Touch screen Mobile phone with GPRS features to store the contacts in to Predefined website permanently.

**SET-09.** Touch screen and Zigbee based wireless communication assistant for Dumb and illiterates in Airlines

**SET-18.** Touch screen based advanced menu display and Ordering System for Restaurants.

**SET-19.** Touch screen and Zigbee based advanced automation system for next generation apartments.

**SET-28.** Touch screen and Zigbee based library automation using RFID.

**SET-29.** Touch screen based wheel chair control system.

**SET-30.** Image based password authentication for Illiterates with Touch screen.

**SET-31.** Touch screen based Nurse/attendant calling system for physically impaired.

**SET-32.** Touch screen based Digital Slate for next generation elementary school children.

**SET-33.** Touch screen based remote controlled robot with wireless video camera.

**SET-34.** Zigbee/Bluetooth and Touch screen Controlled PC.

**SET-36.** Construction of Touch screen based portable Digital Clock.

**SET-37.** Touch screen controlled lamp dimmer for next generation apartments.

**SET-38.** Touch screen operated Volumetric Oil Dispenser.

**SET-39.** Touch screen based temperature monitoring and control system with graphical LCD.

## **GPRS based project**

**SET-458.** Remote patient monitoring system with GPRS Sooxma website.

**SET-01.** Design and development of Touch screen Mobile phone with GPRS features to store the contacts in to Predefined website permanently.

**SET-220.** GPRS based real time data logger onto live website ([www.sooxma.com](http://www.sooxma.com)) with SMS based real time device control

**SET-337.** Remote home monitoring through internet and controlling using RF.

**SET-58.** GPRS based real-time Home/Industrial critical devices status information logger into [www.sooxma.com](http://www.sooxma.com).

**SET-243.** Online data logging of device status and temperature using GPRS.

**SET-94.** Online library book catalog with RFID technology.

**SET-44.** GPS and GSM based real-time vehicle tracking on Google Earth (with two GSM Modems)

**SET-93.** Student data logging system into college website based on RFID.

**SET-59.** Medical parameters monitoring on live website [www.sooxma.com](http://www.sooxma.com).

**SET-60.** Student data logging system into college website based on RFID.

**SET-61.** Online library book catalog with RFID technology.

**SET-94.** Online library book catalog with RFID technology.

## GPS BASED PROJECTS

- SET-628.** Creating Innovation with Systems Integration –Road and Vehicle Integrated Electric Transportation System (2012)
- SET-632.** Wireless Black Box Using MEMS Accelerometer and GPS Tracking for Accidental Monitoring of Vehicles (2012)
- SET-596.** Safe Driving Using Mobile Phone (2012)
- SET-625.** Automatic ambulance rescue system (2012)
- SET-515.** Live vehicle tracking system on Google maps
- SET-546.** Accident Identifier with Auto Dialing Option
- SET-513.** GPS based sensitive area locator
- SET-530.** Designing of intelligently navigable Robot using GPS and Digital Compass
- SET-559.** Military Persons Training System using GPS and GPRS based real time tracking on Google Earth
- SET-576.** GSM based Solar fencing system
- SET-490.** Virtual boundary alerting through SMS
- SET-374.** Wireless enabled valve opening and closing system that works only at specific locations on earth (Using GPS)
- SET-421.** Pedestrian Navigation System with Fall Detection and Energy Expenditure Calculation.
- SET-199.** Location aware mobile phone signal strength logger into 2GB memory card (MMC/SD/Micro SD)
- SET-413.** GPS based Geo weather data logging in 2GB Memory card
- SET-466.** Autonomous Mobile Platform II with artificial intelligence using digital compass and GPS
- SET-367.** GPS and RF based indoor and outdoor navigation system
- SET-185.** Voice recognition and voice guidance based GPS turn-by-turn navigator for blind with ultrasonic obstacle avoidance.
- SET-03.** Construction of Intelligent mobile phone with GPS enabled features.
- SET-40.** GPS based data logger and real time vehicle tracking with GSM.
- SET-338.** GPS based station name display and door control



- SET-41.** GPS and GSM based office cab monitoring, alerting and logging system.
- SET-204.** GPS based navigator with location display on Graphical LCD. This provides user to have the location information displayed in any language
- SET-205.** Advanced GPS based navigator for illiterates
- SET-202.** GPS and Graphical display based tourist-guiding system with Touch screen keyboard input for dynamic location recording. This can be used any where in the world including Sea and Forest locations
- SET-208.** Wireless Bluetooth enabled GPS receiver data logger
- SET-213.** GPS Data Logger with Longitude, Latitude, Speed, Time, Number of satellites into fat16/fat32 file system on 2GB memory card
- SET-42.** Automatic taxi Trip Sensing and Indicating System through GSM.
- SET-43.** GPS based train location tracking system with SMS facility.
- SET-44.** GPS and GSM based real-time vehicle tracking on Google Earth (with two GSM Modems)
- SET-45.** Military persons training system that monitors the speed at which they move and records the calculated traveled distance with the time.
- SET-46.** Virtual distance measuring tape with GPS and GLCD. Very useful for roads and buildings department. One man operable and works anywhere on Earth.
- SET-47.** Microcontroller and GPS based geographical map drawing instrument. Very useful for Civil engineers.
- SET-48.** Human travel location tracking system by using GPS.
- SET-49.** Microcontroller based virtual boundary/fencing for Animal Movement Control.
- SET-50.** GPS based station name announcement and display system for Trains/buses.
- SET-51.** Implementation of location based advertisement system using GPS and Graphical LCD.
- SET-52.** GPS based border alert system for fishermen with boat speedometer.
- SET-53.** Location driven car music player. (Plays devotional songs near temples, shuts at home etc.)
- SET-54.** Travel assistant for blind with dynamic user input for location based alerts.
- SET-55.** Automated bus-stop alert for passengers using GPS.
- SET-56.** GPS based wireless Speedo meter for boat/ship with speed and location limit alerts.
- SET-57.** GPS based universal clock. Gets the time from satellites and displays on GLCD.

## GSM TECHNOLOGY PROJECTS

- SET-559.** Military Persons Training System using GPS and GPRS based real time tracking on Google Earth
- SET-574.** GSM based Energy meter with tampering alert
- SET-624.** Automatic Measurement and Reporting System of Water Quality Based on GSM (2012)
- SET-596.** Safe Driving Using Mobile Phone (2012)
- SET-628.** Creating Innovation with Systems Integration –Road and Vehicle Integrated Electric Transportation System (2012)
- SET-632.** Wireless Black Box Using MEMS Accelerometer and GPS Tracking for Accidental Monitoring of Vehicles (2012)
- SET-625.** Automatic ambulance rescue system (2012)
- SET-515.** Live vehicle tracking system on Google maps
- SET-546.** Accident Identifier with Auto Dialing Option
- SET-575.** RFID and GPRS based intelligent courier mailbox system with automatic delivery notification.
- SET-576.** GSM based Solar fencing system
- SET-490.** Virtual boundary alerting through SMS
- SET-199.** Location aware mobile phone signal strength logger into 2GB memory card (MMC/SD/Micro SD)
- SET-462.** Design and construction of voice operated mobile phone for people with no hands.
- SET-260.** Radar Velocity-measuring System Design and high speed alert intimation through SMS
- SET-01.** Design and development of Touch screen Mobile phone with GPRS features to store the contacts in to Predefined website permanently.
- SET-02.** Design and construction of MEMS based tilt operated touch free mobile phone useful for physically challenged/paralyzed persons.
- SET-255.** GPS-GSM Integration for Enhancing Public Transportation management Services
- SET-352.** Design of Ultra Low Cost Cell Phone Based Embedded System for Irrigation
- SET-81.** Smart card and GSM based advanced security system.
- SET-337.** Remote home monitoring through internet and controlling using RF.

- SET-58.** GPRS based real-time Home/Industrial critical devices status information logger into [www.sooxma.com](http://www.sooxma.com).
- SET-242.** GSM based SCADA implementation for industrial applications with fencing security system
- SET-243.** Online data logging of device status and temperature using GPRS.
- SET-94.** Online library book catalog with RFID technology.
- SET-44.** GPS and GSM based real-time vehicle tracking on Google Earth (with two GSM Modems)
- SET-03.** Construction of Intelligent mobile phone with GPS enabled features.
- SET-14.** RFID and GSM based intelligent courier mailbox system with automatic delivery notification.
- SET-15.** Construction of Smart mobile phone with driving mode selection to avoid accidents.
- SET-17.** GPS and GSM based Real-time Human Health Monitoring and Alert System for Cardiac patients.
- SET-41.** GPS and GSM based office cab monitoring, alerting and logging system.
- SET-245.** Real-time industrial automation based on GSM and wireless Zigbee
- SET-246.** Industrial temperature and Electrical data into 2GB MMC with real time monitoring using GSM technology
- SET-59.** Medical parameters monitoring on live website [www.sooxma.com](http://www.sooxma.com).
- SET-60.** Student data logging system into college website based on RFID.
- SET-61.** Online library book catalog with RFID technology.
- SET-62.** GSM based school children security system based on RFID.
- SET-63.** A mobile agent based distributed intelligent control system architecture for home automation
- SET-64.** Real-time home automation based on GSM and wireless ZigBee.
- SET-65.** Wireless Google Earth control system at Railway/Bus Stations for tourist's route map guidance.
- SET-66.** GSM 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-68.** Electronic eye-dial-up.
- SET-69.** GSM based SCADA implementation for industrial applications with IR sensor.

- SET-70.** GSM based student data acquisition.
- SET-71.** SMS Based DC Motor Speed Controller with password protection.
- SET-72.** Home appliances monitoring and controlling system using GSM with fencing auto alerts.
- SET-165.** Gas leakage detector & auto dialing controller system
- SET-197.** GSM based instantaneous vehicle registration details extraction system very useful for Traffic police
- 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-75.** Home security System based on LPG gas, Smoke and Fire Sensors with SMS based alerts
- SET-76.** GSM based digital Notice board with display on GLCD display.
- SET-77.** GSM based digital Notice board with display on PC Monitor.
- SET-78.** GSM based digital Notice board with display on Scrolling LED Display.
- SET-79.** GSM based SCADA (Supervisory Control and Data Acquisition) implementation.
- SET-80.** Dual GSM Modems based irrigation water pump controller for illiterates.
- SET-82.** Voice enable device switching for physically challenged and emergency alerts through SMS.
- SET-83.** SMS based remote SIM card's address book access system.
- SET-84.** GSM and MMC/SD Memory Card based Remote Message Storage Device.
- SET-85.** Microcontroller Based Thermometer and SMS based alerts.
- SET-86.** Security Integrated system based on wireless access protocol for industrial applications with SMS alert system using GSM modem
- SET-87.** 3-phase irrigation motor monitoring and Auto-controlling based on GSM technology.
- SET-88.** GSM based pre-paid Energy Meter with low balance alert..
- 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)

## MATLAB – Embedded Projects

- SET-494. MATLAB GUI controlled Home/Industrial Automation
- SET-495. Robot controlling using GUI and Audio Video capturing using MATLAB
- SET-496. Heart beat signal monitoring on PC using MATLAB.
- SET-497. Material handling robot controlling through wireless Zigbee from MATLAB.
- SET-498. Fire detection and automatic controlling using Image processing.
- SET-499. Fire detection based on Image processing with wireless video camera
- SET-500. Automatic Image Resizing by seam carving

## RFID 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-261. Smart card based Security Access Control System.
- SET-13. Smart Card and GPS based automatic bus ticketing system for traveled distance.
- SET-14. RFID and GSM based intelligent courier mailbox system with automatic delivery notification.
- SET-91. RFID and GSM based Advanced Vehicle parking slot booking system.
- SET-92. RFID and Zigbee based Voice enabled calling bell.
- SET-81. Smart card and GSM based advanced security system.
- SET-93. Student data logging system into college website based on RFID.
- SET-94. Online library book catalog with RFID technology.
- SET-95. GSM based school children security system based on RFID.
- SET-96. RFID and 2GB SD/MMC card based patient data monitoring system with PC interface.
- SET-97. Vehicle count and Speed Display System for High ways and high speed alerts with vehicle number using RFID.
- SET-98. Touch screen and RFID based Ticket booking system.

**SET-28.** Touch screen and Zigbee based library automation using RFID.

**SET-100.** Designing of 24 hours digital library and books data logger in to PC.

**SET-101.** RFID warehouse robot.

**SET-102.** RFID based bus identification system for blind with voice.

**SET-103.** RFID Card based security access control systems.

**SET-104.** RFID based digital library system and alerts.

**SET-105.** RFID based Highway toll collection

**SET-106.** RFID based Shopping trolley.

**SET-107.** RFID based employee login system and identification display on PC.

**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 PROJECTS

- SET-113.** Innovative Congestion Control System for Ambulance Using ZIGBEE
- SET-114.** Zigbee based wireless Electronic Notice Board with Multi Point Receiver.
- SET-115.** Zigbee device access control and reliable data transmission in Zigbee based health monitoring system.
- SET-116.** Two-way Wireless Data Messaging System for Rural Areas using ZigBee Technology.
- SET-229.** Wireless Digital Camera Controller. Using this project the digital camera can be controlled remotely using RF Transmitter and Receiver. The controls include taking picture snaps, switching on the flash light, changing camera direction using stepper motor etc
- SET-230.** Wearable technology for wireless gadgets control
- SET-339.** Cost Effective Wireless Attendance and Access Control System
- SET-337.** Remote home monitoring through internet and controlling using RF.
- 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-207.** Radio Frequency wireless remote controlled digital camera with high power LED based focusing light. The camera direction can be controlled remotely and the video images can be seen live on TV
- 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-121.** Wireless Heartbeat Monitoring and Alert system
- SET-122.** Development of Zigbee based Street Light
- SET-123.** Train automation using RF with voice annunciator for the stations
- SET-124.** Employee login and logout details with displayed on PC based on RF.
- 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-128.** Finding of missing object based on RF technology.
- SET-129.** Microcontroller based Wireless matchbox with digital lantern.

- SET-130.** Virtual wireless dancing bells for classical dancers.
- SET-131.** Child/Blind tracking system & alerts to our hand held device.
- SET-132.** Home security system Based on wireless RF technology
- SET-133.** Wireless Stepper Motor Control using RF Communication.
- SET-134.** TV Remote Controlled PC and Devices with Password protection

## ROBOTIC PROJECTS

- SET-638.** HAWK: An unmanned mini helicopter-based aerial wireless kit for localization (2012)
- SET-613.** Using Cellular Automata on Recommendation Mechanism for Smart Parking in Vehicular Environments (2012)
- SET-588.** Robot to rescue of a child in a borehole (2012)
- SET-495.** Robot controlling using GUI and Audio Video capturing using MATLAB
- SET-497.** Material handling robot controlling through wireless Zigbee using MATLAB.
- SET-498.** Fire detection and automatic controlling using Image processing.
- SET-499.** Fire detection based on Image processing with wireless video camera
- SET-509.** Automated Vehicle safety system to avoid accidents
- SET-519.** Smart zone based Vehicle speed control system based on RF and DTMF
- SET-531.** Intelligently navigable Robotic vehicle for Industries using compass and RFID
- SET-540.** War field wireless spying Robot with live human and explosive detection having sharp shooting weapon
- SET-560.** Robot controlling wirelessly through Wi-Fi technology
- SET-561.** FAMPER robot with Video transmission and head lamp vision
- SET-562.** Artificial vision systems for the blind using ultrasonic wave
- SET-567.** Vehicle Anti collision using Ultrasonic signals
- SET-568.** Automatic Head light Intensity control for vehicles to avoid accidents
- SET-489.** Tongue driven speaking wheel chair with wireless device control
- SET-492.** Voice operated Fire extinguisher vehicles with water jet spray
- SET-466.** Autonomous Mobile Platform II with artificial intelligence using digital compass and GPS



- SET-469.** Tongue controlled speaking robot for paralyzed/physically handicapped persons.
- SET-474.** PC controlled wireless Pick and Place Speaking Robot
- SET-364.** Gestures controlled Intelligent Wheel chair with device switching
- SET-362.** PC operated wireless War field Robot
- SET-361.** Intelligently Investigate Pipe-line Robot
- SET-05.** Voice operated intelligent Lift or Elevator
- SET-346.** Wheel chair movement control using tongue
- SET-398.** Location based vehicle speed controlling using RF
- SET-258.** Obstacle Avoidance and Manhole detection Electronic travel aid Robot for blind
- SET-191.** Voice actuated hospital bed control system and Heart Beat monitoring and alerting system
- SET-345.** Voice activated multi purpose robot
- SET-158.** Voice commands based wheel chair for physically challenged.
- SET-483.** Intelligently Navigable Robotic vehicle for Industries using compass and Magnetic crane
- SET-350.** USING MOBILE ROBOTS TO HARVEST DATA FROM SENSOR FIELDS
- SET-349.** Omni Directional Robot with GSM Connectivity for Remote Access
- 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-214.** J2ME Java Enabled mobile phone controlled Bluetooth Robot
- 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.
- 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.

## MMC/SD card projects

- SET-21.** GPS based vehicle travel location data logger with 2GB MMC/SD Memory card.
- SET-40.** GPS based data logger and real time vehicle tracking with GSM.
- SET-41.** GPS and GSM based office cab monitoring, alerting and logging system.
- SET-213.** GPS Data Logger with Longitude, Latitude, Speed, Time, Number of satellites into fat16/fat32 file system on 2GB memory card
- SET-45.** Military persons training system that monitors the speed at which they move and records the calculated traveled distance with the time.
- SET-47.** Microcontroller and GPS based geographical map drawing instrument. Very useful for Civil engineers.
- SET-199.** Location aware mobile phone signal strength logger into 2GB memory card (MMC/SD/Micro SD)
- SET-66.** GSM and 2GB MMC card based data logger with real time monitoring.
- SET-84.** GSM and MMC/SD Memory Card based Remote Message Storage Device.
- SET-96.** RFID and 2GB SD/MMC card based patient data monitoring system with PC interface.
- SET-161.** MMC/SD key security system.
- SET-162.** Graphical LCD and Memory stick (MMC/SD card) based textbook reading system.
- SET-227.** Standalone Heartbeat Data Logger (MCU+SD/MMC 1GB Card+ Sensors). (The purpose of this project is to log the heartbeat data into the MMC memory stick. The data for the duration up to One Month can be logged continuously)
- SET-228.** Solar data logger into MMC/SD Memory Card

## **MEMS accelerometer projects**

- SET-08.** Head movement based voice enabled wireless device switching for physically challenged
- SET-160.** Automatic fall detection and activity monitoring for elderly.
- SET-200.** MEMS Accelerometer based digital photo frame with automatic position/view adjustment system (similar to digital cameras)
- SET-02.** Design and construction of MEMS based tilt operated touch free mobile phone.
- SET-159.** MEMS Accelerometer controlled PC.
- SET-22.** Wearable Technology based secure access control system with motion based password.
- SET-230.** Wearable technology for wireless gadgets control
- SET-117.** Wireless vibration monitoring system of industrial equipments (Also useful for bridges monitoring).
- SET-139.** MEMS Accelerometer based Hands Gesture controlled Robot
- SET-145.** MEMS controlled robot with wireless video camera mounted on it.
- SET-144.** Hand Gestures controlled Intelligent Wheelchair.
- SET-152.** Micro Electro Mechanical Sensor (MEMS) Accelerometer based self-balancing robot.
- SET-200.** MEMS Accelerometer based digital photo frame with automatic position/view adjustment system (similar to digital cameras)

## Speech recognition system projects

- SET-05.** Voice operated intelligent Lift or Elevator
- SET-191.** Voice actuated hospital bed control system. Very useful in operation of selected bed movements and room environment functions associated with a provided multi-function hospital bed
- SET-10.** Zigbee based wireless Voice to Text translator in Airlines/Hospital assistant system for blind/Illiterates.
- SET-157.** Speech recognition based password enabled device switching for blind and physically challenged.
- SET-158.** Voice commands based wheel chair for physically challenged.
- SET-198.** Speech recognition based wheel chair operation and wireless home devices control system
- SET-345.** Voice activated multi purpose robot
- SET-185.** Voice recognition and voice guidance based GPS turn-by-turn navigator for blind with ultrasonic obstacle avoidance.
- SET-82.** Voice enable device switching for physically challenged and emergency alerts through SMS.
- SET-215.** Speech recognition system based powered devices control system

## Heartbeat sensor projects

- SET-16.** Cardiac Sentinel: A smart GSM based embedded solution for continuous remote monitoring of cardiac patients.
- SET-17.** GPS and GSM based Real-time Human Health Monitoring and Alert System for Cardiac patients.
- SET-96.** RFID and 2GB SD/MMC card based patient data monitoring system with PC interface.
- SET-121.** Wireless Heartbeat Monitoring and Alert system.
- SET-252.** Heart beat monitoring with display on LCD.
- SET-93.** Microcontroller based Heartbeat Monitor with Display on pc.
- SET-193.** Wireless touch screen based heartbeat monitoring of multiple patients

## **Bluetooth projects**

- SET-12.** Bluetooth based advanced wireless home automation system.
- SET-24.** Android Smart Phone operated Intelligent Home.
- SET-186.** Bluetooth Energy Meter.
- 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-209.** J2ME Java phone controlled Home Automation
- SET-214.** J2ME Java Enabled mobile phone controlled Bluetooth Robot

## **RS-485 projects**

- SET-206.** RS485 based SCADA system for longer distance powered devices.
- SET-354.** PC based Digital Notice Board with display on LCD using RS485 protocol

## **Controller Area Network (CAN) projects**

- SET-501.** Flight parameters based on CAN protocol.
- SET-502.** Real time implementation of CAN protocol in automobiles.
- SET-511.** Vehicle dash board using CAN communication
- SET-583.** CAN Based Distributed Control System For Autonomous All-Terrain Vehicle(ATV).
- SET-584.** Industrial Automation Using CAN Protocol
- SET-585.** Multivariable Parameter Interfacing With CAN Bus
- SET-195.** CAN protocol enable multi-region monitoring and control system.
- SET-467.** Touch Screen based communication assistant in Airlines using high speed CAN communication

## Finger print recognition projects

**SET-512.** Finger authentication based cash box opening and closing system

**SET-551.** Finger print based Student identification with RFID based library automation

**SET-470.** Dual Security Access control system Using Finger Print and Keypad for Bank Locker

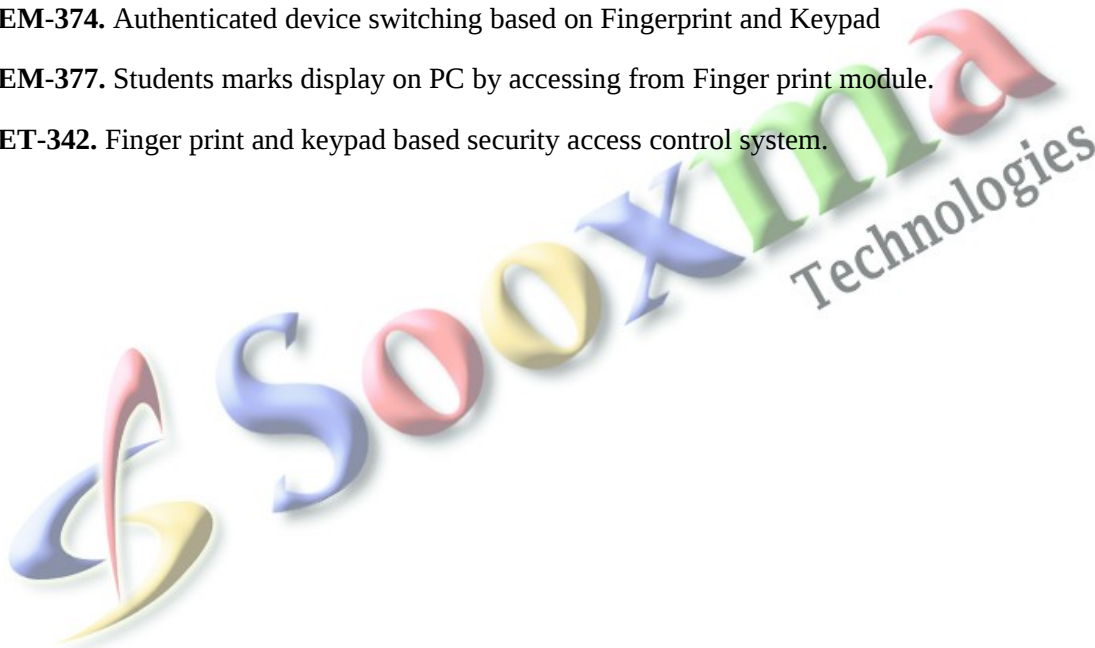
**SET-351.** Wireless Fingerprint ACCESS CONTROL System Based on ZigBee Technology

**SEM-376.** Library Automation with user defined finger print accessing.

**SEM-374.** Authenticated device switching based on Fingerprint and Keypad

**SEM-377.** Students marks display on PC by accessing from Finger print module.

**SET-342.** Finger print and keypad based security access control system.



## Google Android mobile projects

- SET-516. Microcontroller based Heartbeat on Android phone
- SET-503. Android controlled scrolling LED message display
- SET-504. Android controlled speech and text based scrolling LED message display
- SET-505. Android speech recognition based Home automation
- SET-506. Android speech recognition based Lamp dimmer
- SET-507. Android speech recognition controlled intelligent Robot
- SET-508. Android speech recognition controlled intelligent Wheel chair
- SET-510. Bluetooth devices based access control system without built-in application
- SET-528. RFIDroid
- SET-524. Wi fi based Wireless Heart beat monitoring system on android phone
- SET-533. Android Smart Phone based Detection and Communication System
- SET-218. Android based real time lamp dimmer over Bluetooth.
- SET-188. Android operated Intelligent 230v AC Lamp Dimmer.
- SET-189. Smart phone based data logger
- SET-186. Bluetooth Energy Meter.
- SET-187. Google Android Smart phone operated Motor Control System.
- SET-12. Bluetooth based advanced wireless home automation system.
- SET-417. Robot controlling wirelessly through Wi-Fi
- SET-24. Android Smart Phone operated Intelligent Home.
- SET-479. Aquatic water quality monitoring system using Bluetooth
- SET-481. Event driven automation with Android backup control
- SET-224. Smart phone Android Operated Robot.
- SET-225. Android phone Accelerometer sensor based Robot Navigator.
- SET-192. Sooxma's Android phone temperature data logger over Bluetooth.
- SET-226. Google Android operated Smart Home.



## Wi-Fi Projects

**SET-607.** A Wi-Fi based Smart Wireless Sensor Network for Monitoring an Agricultural Environment (2012)

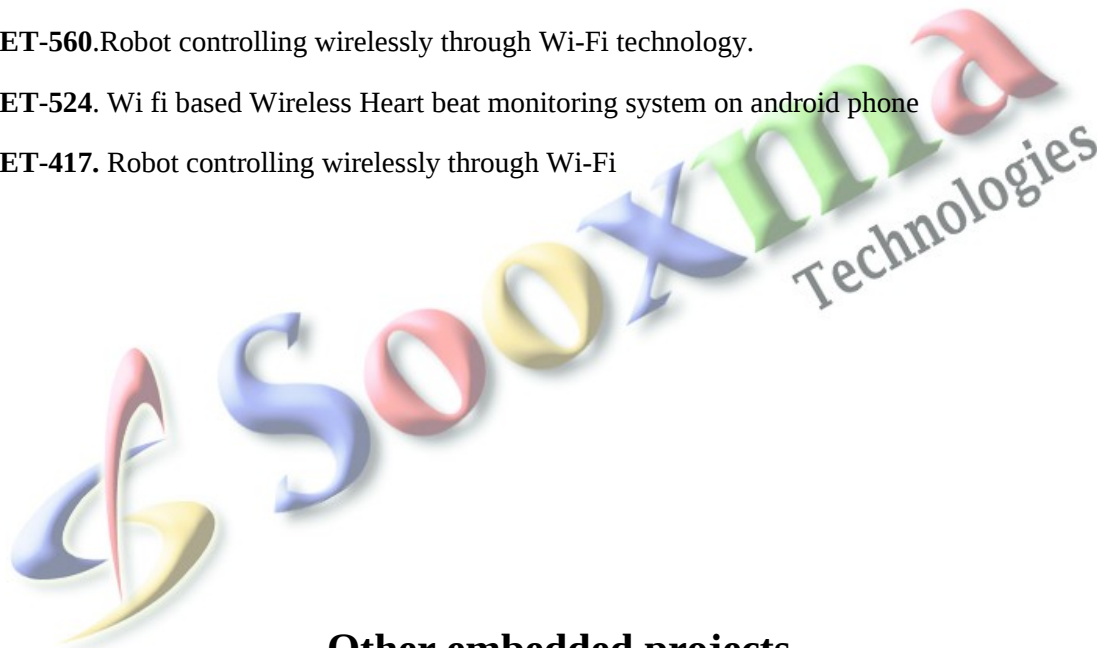
**SET-605.** Mobile application as a tool for urban traffic data collection and generation to Advanced Traveler Information Systems using Wi-Fi networks available in urban centers – (2012)

**SET-552.** Industrial Monitoring with Android Mobile Application using Wi-Fi

**SET-560.** Robot controlling wirelessly through Wi-Fi technology.

**SET-524.** Wi fi based Wireless Heart beat monitoring system on android phone

**SET-417.** Robot controlling wirelessly through Wi-Fi



## Other embedded projects

**SET-336.** A multi agent multi sensor based security system for intelligent building

**SET-341.** Automatic LDR based window blind control system

**SET-163.** Solar Tracking Street Light System.

**SET-164.** Call Based Home 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-168.** PC based Digital Notice Board with Display on LCD Display.

**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-176.** Petrochemical Level Indicator and Controller for Automation of cotton purification process in spinning mills.
- SET-177.** Infrared (IR) remote controlled Muscle Stimulator with duration and intensity control.
- SET-178.** Mobile Phone controlled PC with Devices Control
- SET-179.** Microcontroller based digital clock with Graphical LCD and Sanskrit font (or Any regional font) Numbers.
- SET-180.** Real-time Heartbeat Monitoring system with display on Graphical LCD and alerting system.
- SET-181.** Telugu Tutor with dynamic text and Images identification for elementary school kids.
- SET-182.** Innovative keyboard construction with only one input pin.
- SET-183.** Voice enabled devices switching for visually impaired.
- SET-190.** Human body temperature and Heart rate monitoring on mobile screen over Bluetooth wireless technology
- SET-195.** CAN protocol enable multi-region monitoring and control system.
- SET-196.** Microcontroller based online examination system with dynamic questions