

MAXIMUM STUDENTS ALLOWED PER PROJECT: 3-4 STUDENTS

ANDROID & SMART PHONE BASED PROJECTS

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	Smart Remote for controlling electrical appliance through android mobile.	With this we can control any electrical appliances with our android phone, no need of another remote .It is safe and secure also
2.	Virtual nurse- controlling wheel chair through android mobile	With this the patient can easily control his wheel chair through simple and smart touching of android mobile
3.	Advanced android mobile controlling robot	With this we can easily control robot direction through simple and smart touching of android mobile
4.	Smart and cost effective wireless electronic notice board message updating system from android mobile	In this we can easily update messages in LED scrolling boards through android mobile. Whatever the message we type and send that will be displayed on your electronic notice board. It is very useful project for college applications
5.	Accelerometer/MEMS based robot controlling through android mobile	In this we will control robot direction by moving android phone in respective directions. The robot follows the direction in which the android phone is kept.

6.	Android mobile controlled voice guider for patients/old aged people/dumb people	In this the services will be indicated through voice so that nurses or care takers can come to the patient to provide service to him. The patient has to touch respective button in android phone depends upon his requirements, and then respective voice will be played. In this the patient can also control some appliances like fan ,lights.etc
7.	Smart Home/office automation through android mobile.	With this we can control any electrical appliances in home or office or industry with our android phone, no need of another remote .It is safe and secure also
8.	Advertisement boards or status boards message updating system from android mobile for offices and restaurants.	This is very useful project for offices ,some shops and restaurants to display their offers and status messages like OPEN,CLOSED,LUNCH TIME,MEETING TIME, HOLIDAY, etc. The user can easily modify the messages from android mobile.
9.	Smart regulator for controlling fan speed through Android mobile	With this we can control speed of fan or AC from our android mobile
10.	AC motor speed controller through Android mobile	With this we can control speed of AC motor from our android mobile
11.	Advanced street light controlling system through smart phone	In this we can control street light from anywhere through smart phone
	Smart phone based patient	With this we can monitor patient condition or our old aged person's condition through smart phone.

12.	monitoring system	
13.	Industry/home/office automation through smart phone	With this project we can control any electrical appliances of office or home or industry from anywhere by using Smart phone.
14.	Industrial parameters monitoring system through Smartphone	We can monitor different parameters like temperature, voltage, etc through online using smart phone from anywhere
15.	Single or Multi electronic notice boards with operating distance up to 1000meters using RS485 protocol	With this we can send message to electronic notice board from PC, and the notice board can be place anywhere within the range of 1000meters (1km) and we can control more than one notice board from same computer and different messages for different boards is also possible.
16.	Real time vehicle tracking with vehicle location indication on Google earth	This will show your vehicle current position exactly on Google earth
17.	Efficient power saver for street lights using LDR, RTC, LEDs light with solar power	This project saves more power that is being wasted in present street light switching. In this we will consider time and sunlight intensity and we use LED lights and solar power
18.	Station names with distance indicator in railways	This project is useful for passengers in trains or buses. In this the distance of next station will be displayed using GPS so that the passenger will come to where he is and how far he is from his destination.
19.	Wireless controller for operating power point presentations with laser light indication.	This project eliminates the use of second person to operate the PPT. It can be controlled by the person who is giving that PPT with the help of any wireless remote
	Voice guider and medicine reminder for patients and old	In this the user will be given one remote (IR or RF or ZIGBEE), he has to press any button to get what service he wants and that is played from voice IC so that any

20.	age persons	person can hear it and come to the user. Another feature of this project is to remind the user for medicines
21.	Agricultural motor controlling with motor safety and water level indicator using GSM.	The former can control his field motor without need of going to his field just by sending message. This system also provides safety motor from over heat, low phase power and water level indication.
22.	Industrial data logger using RS485.	In this we will display the some sensors data from different places in industry, the sensor boards can be placed anywhere in the industry within in the distance of one Kilometer.
23.	Voice / touch screen /MEMS controlled Wheel chair for patients and physically challenged persons with capacity upto100Kgs	In this any user can operate this wheel chair with different controlling methods without need of another person and this can bare weight up to 100Kgs
24.	Intelligent shopping trolley using RFID	With this we can save billing time and instantaneously the rate and expiry date of the product will be displayed so that we can do the shopping within our budget.
25.	Elegant home with power saving, security, safety, remote controlling and auto control of water tank motor	In this we will provide multi features to home like remote controlling of home appliances ,auto controlling of lights depends upon sunlight and auto controlling of water tank motor when tank is full and alert the user when intruders come or when gas leakage or fire accident occurs.
26.	Intelligent train engine to avoid accidents and controlling railway gate automatically.(add alcohol)	In this we will control the train by monitoring the driver's position or activeness and the gate will b e controlled automatically when train is near the gate.
27.	Vehicle theft control and accident location intimation through SMS	This project provides security for your vehicles, with this vehicle will be controlled by only owner's permission and it also sends a message of vehicles location when it meets with any accident.
28.	Intelligent traffic signaling priority system for ambulances and VIP vehicles	The traffic signals will be controlled automatically when any ambulance or VIP vehicle sends a request with indicating their root

29.	Automatic marks sending system to students through SMS	Whenever the authorized student sends a message to this system it send the students marks through SMS
30.	Automation of tollgate and blocking of unauthorized vehicles	This system automatically collects the toll tax and allow the vehicles if they pay sufficient tax .it also checks whether particular vehicle has permission or not to go out.
31.	Electronic health card	This system completely reduces the paper usage. Medicines prescribed by the doctor and patient test reports are stored in this card .this card can be used for future reference in any hospital
32.	Bus departure indication and auto announcement system in bus stops, useful in rural bus stops	With this we can come to know whether particular bus arrived or not
33.	CHILD SAFETY MANAGEMENT USING RF TECHNOLOGY	With this project we can easily identify if any child crosses predefined area. This is useful in kid care centers, apartments and in schools
34.	Cost effective energy billing system	It collects the data from each house in apartment and generates the bill according the charges at that time through Zigbee and sends the message to electricity board. It also disconnect the power if bill is not paid before due date
35.	Advanced bus ticketing system with alert to passenger	This module is equipped in bus. Passengers has to take the ticket using smart card while taking ticket money will be deducted and their destination will be saved. Whenever bus reaches their station it automatically indicates to the driver till they get down in that station

GSM & GPS BASED PROJECTS

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	Automatic Streetlight On/Off with SMS Controlling and Failure Detection with Indication	Controlling of streetlights through SMS is carried out in this project. If any light is not glowing due to some failure, the system indicates this failure and sends an SMS to the user mobile.
2.	Supervisory control and data acquisition system (SCADA) using GSM modem	In this we will monitor different parameters in industry like voltage, current temperature, etc and send a message when any abnormal condition is occurred.
3.	UPS Battery monitoring system over GSM for High availability system	Voltage of battery is continuously monitored and send a message when it is about to reach below cut off levels.
4.	GPS based border alert system for fishermen with boat speedometer	In this we will intimate the fishermen when they cross their borders using GPS
5.	Automatic power meter reading system using GSM network	Power consumed is measured by power meters and this data is sent to electricity board through SMS.

6.	RFID and GSM based intelligent courier mailbox system with automatic delivery notification	This system sends a message to user when his courier reaches its destination
7.	A smart GSM based embedded solution for continuous remote monitoring of cardiac patients	In this the patient heart beat and temperature will be monitored continuously and sends a message to relevant persons when abnormal state is occurred
8.	GPS based vehicle travel location data logger with GB MMC/SD Memory card	In this we will store the locations latitude and longitude vales traveled by the vehicles with time stamp in memory card
9.	GPS and GSM based office cab monitoring, alerting and logging system	This system sends a message to the owners when the cab reaches its destination and also send the present to the employees who travel in that cab
10.	Flexible load sharing of transformer with GSM SMS	It continuously measure the load current and it shares this load with another transformer when the load is more and send an alert through message. The user can also share directly whenever he wants just by sending message
11.	GSM Based Smart Information System For Lost ATM Cards	The system provides the information about the lost ATM card to his mobile. The user receives a message whenever this card is placed into an ATM machine or used in any banks.
12.	Vehicle Tracking and Security System using GSM and GPS	The project is designed to track the vehicle using GPS and send the information of the vehicle to the user mobile using GSM.

13.	Agriculture field motor control system using GSM	Motors in the field are controlled with the help of predefined SMS.
14.	Accident Identification System using GSM And GPS	The project designs a system that tracks the vehicle continuously and if the vehicle is met with an accident, the system immediately identifies this and sends an SMS to the family members or to the doctor.
15.	Patient Monitoring and Alert System using GSM	Monitors the health of a patient through SMS.
16.	Home Security System using GSM	Providing security to the homes using GSM
17.	Industrial Electrical Devices Control System	By this project, we can control the devices in the industries by sending predefined SMS to the controlling unit.
18.	Automatic Fire Detection and Alert System	Alerts when fire accidents occur to a predefined number.
19.	Weather Monitoring system in remote places	It is useful for gathering the environment variables from remote geographical areas for prediction of the weather.
20.	GSM based DC Motor Speed and Direction Control	The speed and direction of DC motor can be controlled by sending predefined SMS to the system
21.	SMS Based Electrical Appliances Apparatus Control in homes or offices	The status of electrical appliances can be monitored continuously and can be altered by sending predefined SMS to the controlling unit.

22.	Embedded Automatic Robotic Car through SMS	The robotic car can be controlled and can be made to move in a particular direction by sending predefined SMS to the unit controlling the direction of the car.
23.	Electricity billing Using GSM.	Billing the electricity units consumed and sending the bills using GSM.
24.	Substation Monitoring and Controlling System using GSM	The temperature, voltage and current in the substation are measured and sent to the user and alerts the user when they are over loaded.
25.	Water reservoir monitoring and pump system using GSM	Water level in reservoir is measured and pumping system is controlled through SMS
26.	Industrial Data Logger using GSM	The parameters like temperature, intensity voltage and current are sent to the user.
27.	Speed Control of Thread Roller's AC motor in Spinning Mills using GSM Modem	The speed and direction of AC motor are controlled using TRIAC and GSM modem in this project.
28.	Real-time Industrial process controlling & monitoring using Mobile	Controlling the industrial processes and checking the status of the processes whenever necessary using GSM mobile.
29.	Intelligent System for Hazardous Gas, Human Detection and Temperature Monitor Control using GSM	The system uses sensors for gas detection, human entry and to monitor the temperature. Whenever these sensors trigger from their normal behavior, the system immediately sends an SMS to the user mobile.

30.	An Advanced Embedded Mobile Web Server for Aged People Monitoring and Parameter back Reception using GSM	Monitors the health conditions of the aged people continuously and if any parameter goes beyond the expected values, the system sends an SMS to the doctor.
31.	Marks Announcement through SMS	The student's performance can be sent to their parents by the lecturers using this project.
32.	Cell Phone based Street Light Controlling System	The on and off controls of the street lights can be done using GSM technology.
33.	Temperature Measurement over GSM Mobile	Temperature sensor is used to measure the temperature in a particular room and this measured value is sent through GSM to the user mobile
34.	Password protected GSM based Device control.	Controlling the devices from remote places only by authorized persons
35.	SMS-Electrical Apparatus Control in Offices	The different apparatus in the offices can be controlled by sending predefined SMS to the controlling unit.
36.	GSM controlled Door Latch opener with Security Dialup with changeable Telephone number	Security is provided in the restricted areas using GSM technology. The door of the restricted areas can be opened only by sending predefined SMS to the controlling unit.
37.	Development of a GSM based Vehicle Security System	The project is designed to provide security to the vehicle using GSM

38.	GSM based Vehicle gaseous fuel leakage detection with Automatic safety warning and alerting system	The project aims in designing a system that would detect if there is any fuel leakage from the vehicle and if so, activates the alert system and also sends as SMS to the user mobile to warn the person to take immediate measures.
39.	SMS based Banking security system	In this project we are providing security to the banks. Sensors are arranged to read the status of different parameters. If the sensors trigger, a predefined SMS will be sent immediately to the user mobile by the controlling unit.
40.	Home Automation and Security System using GSM	Providing security and controlling the devices in the home using GSM is carried in this project.
41.	Automatic Streetlight On/Off with SMS Controlling and Failure Detection with Indication	Controlling of streetlights through SMS is carried out in this project. If any light is not glowing due to some failure, the system indicates this failure and sends an SMS to the user mobile.
42.	Supervisory control and data acquisition system (SCADA) using GSM modem	In this we will monitor different parameters in industry like voltage, current temperature, etc and send a message when any abnormal condition is occurred.

FINGERPRINT BASED PROJECT

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	Fingerprint based Access Control system	Security is provided in restricted areas using fingerprint technology. The persons are asked to give their fingerprint and the system compares this fingerprint with the already stored information in the system and only allows into if it is an authorized one.
2.	Fingerprint Recognition enabled Passport Management System	This system asks for the checking of the fingerprint of the user along with the passport at the time of checking in the airports.
3.	Fingerprint based bank locker system	Authorized persons are allowed to access their bank account by producing their fingerprint at the counters every time.
4.	Fingerprint based Attendance Record System	By this project, the attendance of the persons either in the academic institutions or in the offices is maintained.
5.	Finger print based elevator(lift) operating system	Only authorized persons are allowed to access the lift controls.
6.	Fingerprint based Electronic Voting Machine	This system can completely eliminate rigging and false votes.
7.	Fingerprint based Authentication and Controlling System of Devices	The devices are controlled only when the authentication is proved and the system accepts the fingerprint of the user.

ZIGBEE TECHNOLOGY

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	Modern Restaurants atomization for wireless menu dish ordering using touch panel and ZIGBEE.	On touch panel all the items are present and we can order them just by touch and confirm, the items are automatically served by them
2.	Touch Screen And Zigbee Based Wireless Communication Assistant In Airlines	In airplanes this systems are installed for each user. If they need any service they need to touch the relevant button and confirm then this system sends your service with your seat number.
3.	Touch screen and Zigbee based voice guider for patients	This will be useful for patients and old age people .if they touch the relevant switch for their service that will be announced through speaker
4.	Development of a smart power meter for AMI based Zigbee communication Advanced Metering Infrastructure (AMI)	This will be useful in heavy apartments .individual meters data will be collected and maintained by main system .this main system sends collated data to electricity board
5.	Remote Power On/Off Control And Current Measurement For Home Electric Outlets Based On A Low-Power Embedded Board And Zigbee Communication	We can control the home appliances through Zigbee remote and this system will display the power consumed by the loads

6.	Remote-Controllable and Energy-Saving Room Architecture Based on Zigbee Communication	In this we can control the loads through Zigbee remote or they will also be controlled automatically to save the power
7.	Innovative Congestion Control System for Ambulance Using ZIGBEE	We can change the sequence and duration of traffic signals whenever traffic is more using Zigbee communication
8.	Zigbee based wireless Electronic Notice Board with Multi Point Receiver	We can send the data to electronic notice boards from system through Zigbee wireless communication. From single system we can operate multi notice boards
9.	Zigbee Device Access control system with Reliable data transmission Industrial Process control and Automation system through Zigbee n/w	Controlling the devices using Zigbee technology Controlling many devices and providing automation from remote places
10.	Multi stage Real time Weather monitoring System via Zigbee in Homes/Industries	This project is intended in gathering the environment variables in homes or in industries for prediction of the weather.
11.	Zigbee Wireless Vehicle Identification and Authentication System	Identifying the vehicle and allowing the vehicle into the secured premises only when the system received the signal from the central processing unit.

12.	Applications of Short Range Technologies to Industrial Automation: A Zigbee Approach	Industrial devices are monitored and controlled using Zigbee Technology
13.	The Wireless Sensor Network for Home Care System using Zigbee	Various sensors are used to monitor the home continuously and if any sensor triggers, the system immediately passes this information to the user using Zigbee.
14.	System for Measuring Power Parameters with Zigbee Connectivity.	This system measures the power from each home and sends to central system which is useful in apartments.
15.	Wireless Data Encryption and Decryption Using Zigbee	Which used in security applications
16.	Zigbee Based Automated Irrigation System.	Using Zigbee this system controls the irrigation system automatically.

BLUE TOOTH BASED PROJECTS

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	Bluetooth Robot with CMOS image sensor(SPY ROBOT)	We can control this robot through Bluetooth from PC and the video sent by robot can be seen in TV or PC
2.	Remote controlled home automation using Bluetooth	With this we can control home appliances like lights, fan, motor, etc through Bluetooth. This is safe and secured.
3.	Bluetooth based industrial data acquisition system	This project measures different parameters in industry like voltage, current and temperature and transmit this data to PC continuously through Bluetooth.
4.	Industrial devices controlling system using Bluetooth	With this we can control industry appliances like machines and motors through Bluetooth. This is safe and secured.
5.	Intelligent electricity billing system using Bluetooth	This system receives the units consumed from various meters and generates the bill accordingly. This saves the cost, time and manpower.
6.	Wireless secured data transmission system using Bluetooth	With this we can transfer data between two systems with security

TOUCH SCREEN BASED PROJECTS

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	Touch screen based wheel chair control system	In this the wheel chair is controlled just by touch the required buttons to control the direction of the wheel chair.
2.	Touch screen and Zigbee based voice guider for patients	Which useful for patients and aged people ,this system plays respected voice messages depends upon the button the user touches
3.	Touch screen based remote controller robot with wireless camera	The robot can be controlled just by touching keys and this robot having wireless camera on it to monitor that area
4.	Touch screen based wireless PC controller	We can control the PC using this wireless device .We can open the folders, shutdown the system, etc.
5.	Touch screen based smart home automation	We can control the home appliance just by smart touch

SENSOR BASED PROJECTS

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	SMART HORN FOR VEHICLES WITH ALCOHOL DETECTION FOR DRIVERS	This system reduces the sound pollution that is generated by unnecessary use of horn. This controls the horn intensity depends upon vehicle distance and also gives the special sound when object is detected at back side if vehicle moves backside and this system only allows for driving if driver does not consume alcohol
2.	SMART BLIND STICK WITH ULTRASONIC SENSOR	This stick gives different sound intensity depends upon the object distance from person or we can play some voice also depends upon distance.
3.	LONG RANGE LIQUID LEVEL MEASUREMENT IN CHEMICAL INDUSTRIES	With this we can measure levels up to 3 meters range
4.	AUTOMATIC BOTTLE FILLING SYSTEM	This system automates the bottle filling system by controlling the motor and conveyor belt
5.	PH METER	This meter measures the PH for different acids.
6.	ALCOHOL BREATH ANALYZER	This is a digital alcohol meter which detects the level alcohol consumed by person

7.	INTELLIGENT SYSTEM FOR HAZARDIOUS GAS, HUMAN DETECTION AND TEMPERATURE MONITOR CONTROL USING GSM TECHNOLOGY	This is a intelligent security and safety system for industries. If anything goes wrong then it sends a message to user numbers immediately
8.	TEMPERATURE AND LIGHT CONTROL OF AN INCUBATOR	Incubator maintain constant temperature and light intensity. In this we will control the temperature and light intensity to maintain constant environment
9.	PIR SENSOR BASED POWER SAVER FOR AUDITORIUM AND CONFERENCE HALL	This project is used to save the power in conference halls and in auditoriums. When there are no persons in the hall ,then lights and fans will be switched off automatically
10.	BRICK SORTING USING COLOUR SENSOR	With this we can separate the bricks according to their color. We can use this project for medicines separators also
11.	PATEINT SAFETY SYSTEM USING HEART BEAT AND TEMPERATURE MONITORING	In this we will monitor the patient parameters like heartbeat and temperature
12.	Intelligent security and safety system for colleges and industries	This project detects fire accidents, gas leakages and also alert through SMS when main door is closed without closing any other room entrance or if any other door is opened without opening main door

MEMS BASED PROJECTS

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	MEMS based hands gesture controlled robot	This robot follows your hand movements.
2.	Hand movement recognition System Based Mouse With MEMS Accelerometer	You controlled your PC using your hand movements, like cursor scrolling and folder opening and closing
3.	Fall Detection & Activity Monitoring For Oldsters	We can monitor elders and patients and also we can detect and intimate if they fall

RFID BASED PROJECTS

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	Student college alert system to parents by their entry at the college premises by using RFID and GSM sms technology	This system sends a message to the parents when the student come to school or college
2.	RFID based Shopping trolley	With this we can save billing time and instantaneously the rate of the product will be displayed so that we can do the shopping within our budget
3.	Examination room guide using RFID for the jumbling system based EXAMS	This system will show you the block and room number that is allotted for you in exams
4.	Voter Credentials System using RFID Technique	The user, whoever wishes to poll his vote, has to show his voter card at the time of polling. The system compares the card information with the already stored database and if matched, the system allows the user to poll his vote. The voter cards issued to the user will be written with an unique number. This number does not match with any other user.
5.	RFID based attendance system	In this a RFID card is issued to the each person. With the help of this card, the respective person's attendance is recorded and displayed whenever required.
6.	RFID based Highway Toll Collection	The project aims at providing the ultimate solution for the people travelling on the highways to operate the toll gates. The system enables the drivers to travel on the highway roads while simplifying and collection of toll tax.

7.	RFID security access control system	Authorized person will be given a card. The system check for this card.
8.	Library management system using RFID	The responsibility of managing the books, the issue and return of the books to the students is carried out in a more efficient way using RFID technology.
9.	Bus location announcement system	This system gives the information about whether the bus is arrived or departure.
10.	RFID based Ration Card	The user can buy the grocery items from the ration shop using the smart card based ration card.
11.	Prepaid Energy meter	The user has to make an advance payment before using the electricity. He has to purchase the prepaid card and recharge the energy meter fixed in his/her house with the units in the card. He can utilize the electricity until the units are zero. If the available credit is exhausted, then the supply of electricity is automatically cut.
12.	RFID based Car Parking System	It aims at effective parking of the cars, deducts the fare for the parking of the car from the card available with the user.

ROBOTIC BASED PROJECTS

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	Intelligent metal detection and fire alert robot	This robot gives the alert when metal or fire detects
2.	SMS operated Robot	We can operate this robot by sending SMS from anywhere in the world
3.	Security guard with camera and night vision light	This robot continuously monitor some area and sends video of that place ,this robot has night vision light also
4.	Intelligent Fire extinguisher vehicle	This robot operates the fire blower when fire accident is occurred
5.	Intelligent obstacle detection and avoidance robot	This robot takes diversion automatically when object is detected
6.	Pick and place robot controlling with wire or wireless	With this robot we can pick the objects and place in some another place
7.	MEMS based robot	This robot will be operated by hand movements using MEMS
8.	Smoke and LPG Gas detection robot with wireless control.	This robot will detects the Gas leakages

SMART CARD BASED PROJECTS

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	Advanced Train Ticketing System using Smart Card	The issue of the train tickets to the passengers is done using the smart card technology. The fare will be automatically calculated by the system and the passenger will be issued with a ticket with the journey and fare details in it.
2.	Unmanned petrol bunk system.	A card is given to the user which has some money. The amount is deducted when petrol is bought.
3.	Vehicle Parking System Using Smart Card	Vehicles are parked based on the smart card where the details of parking time is stored
4.	Prepaid energy meter using smart card	In this, the user has to recharge with some number of units. These units are available in smart card based recharge card.
5.	Smart card based attendance system	The person is given id card which contains his particulars. Based on this card, his attendance is recorded and stored.
6.	Smart Card Based Security Access Control System	Security is provided in restricted areas using smart card technologies. The persons are checked with their card information with the already stored information in the system and are only allowed into if the card is an authorized one.
7.	Hospital Management System using Smart Card	The people who make visits to the hospitals are issued health cards. The card when inserted into the reader gives the entire details of the patient holding the card. The details include body temperature, pulse rate etc.
8.	Prepaid Card For Internet Browsing System	The people using the net cafes for browsing are issued with these cards. The system records the in-time and out time of the user into the net browsing center and deducts the amount from the card automatically according to the timings. If the balance is low or nil, the user has to recharge the card to have the access of the internet browsing.

RF BASED PROJECTS

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	Wireless Electronic Notice Board using RF	We can send the data to be displayed to the notice boards from the office itself.
2.	Wireless Data Encryption and Decryption for Security in Army Applications	In this project, we will encrypt the data at the transmitter end and at the receiver end we will decrypt the data to retrieve the original data.
3.	RF based industrial Automation System	The industrial loads like motors, coolers, etc are monitored and controlled by a RF remote.
4.	Advanced Vehicle Access control system	An automated check post system is designed to check the vehicles trying to enter into the secured premises. The system allows the vehicles to enter into only after the authorization from the processing unit.
5.	Patient Monitoring using RF	The details of the patient will be sent to the doctor continuously in a wireless fashion and the doctor can take immediate action whenever necessary.
6.	Wireless Intrusion Detection, Electronic Security and Control System using Central Monitoring System	Designing a system that detects if anything goes wrong in an area, provide security by activating the buzzer and monitor the area continuously.

7.	RF based Electrical Devices Control System	The status of the electrical devices is continuously monitored and can be changed at any time using this project.
8.	Automatic Station Indication System for Railways	This system intimates the passengers about the forthcoming station when the train is about to reach that station.
9.	DC motor speed and direction control using RF	In this project we can control speed and direction of DC motor depending on the requirement using RF signals
10.	Wireless Data Logger Using RF Communication.	The data logger records status of various devices over a period of time and transmits the same to the receiver module.
11.	Wireless Stepper motor control using RF	The stepper motor direction can be controlled using RF communication.
12.	Advanced Embedded Remote Robot using RF	Designing a system that behaves like a robot controlled by the RF remote.
13.	Simple Messenger Development without Internet	A simple messaging device is designed using RF without need for internet.

PC BASED PROJECTS

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	Power Management System in Hotels using PC	The various appliances in the hotels are controlled by giving commands from the PC.
2.	PC based Manual Guided Vehicle using RF wireless technology	The movement of the vehicle is controlled by giving commands from the PC and these commands are transmitted through RF. The vehicle at the receiver section will be controlled by the commands received.
3.	PC based Hi-tech Home Implementation	We can control the home appliances just by sitting in front of PC.
4.	Industrial Automation using PC	The industrial appliances are controlled by the commands issued from the PC. The controlling unit receives these commands from the PC and controls the devices according to the commands.
5.	Industrial Data Acquisition System using PC	The various parameters like temperature, humidity, current, voltage are read from the sensors and displayed in the PC for future studies
6.	Wireless Notice Board using PC	The data to be sent to the notice board will be sent from the PC. This data will be displayed on the notice board using wireless RF technology.

IR BASED PROJECTS

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	Industrial electrical appliances control using IR	To reduce the manpower for controlling the devices we are implementing this project. Here we will be controlling devices by using a general TV REMOTE
2.	DC motor speed and direction control using IR	A DC motor is controlled using wireless communication. In this project we can control the speed of the dc motor and its direction.
3.	Stepper motor control using IR	The direction of the stepper motor can be controlled using an IR remote.
4.	Automatic Room light controller with visitor counter using IR	This project displays the number of persons present in the room and controls the light according to the intensity of daylight.
5.	Auditorium Controlling System	The lights and fans in auditorium are controlled by IR remote.
6.	Automatic Railway Gate Control System using IR	The gates on either side of the railway track are opened and closed immediately without delay when the train arrives on the track

7.	Advanced Embedded Automatic Car Parking System	This system automatically allows the cars to be parked according to the space available in the cellar.
8.	Time Measurement System for Athletics	This system measures time for Athletics to reach the target point
9.	Remote controlled digital clock or fares display using IR	The time or fares can be changed and displayed using IR remote.
10.	Shopping Malls Security and Power Management System using IR	The design of security and the method of consuming the power in the shopping malls are carried out in this project.
11.	Data Transfer between two Microcontrollers using IR Communication	The project aims at designing a system which enables the data transfer between two microcontrollers in a wireless fashion.
12.	Anti-Theft Alarm System	In this project, an alarm system is designed and will be activated immediately whenever the sensors trigger to indicate that something is going wrong.
13.	Intelligent Object Counting System	The project is designed to count the number of objects in a certain area and display it.

PROJECTS USING MICRO CONTROLLERS

S.NO	NAME OF THE PROJECT	PROJECTS DESCRIPTION
1.	Intelligent Train Engines To Avoid Accidents	Designing a system that works as an accident avoidance system using microcontroller.
2.	The Smart Medical Refrigerator	By using this project, we can remind the patient to take the medicine at prescribed timings.
3.	Embedded Green House Automation System	The temperature and light intensity are controlled in green houses.
4.	Substation Monitoring And Controlling System	This project aims at continuously monitor the load conditions of the substation. If the load exceeds the rated capacity, the controlling unit automatically shuts down the substation.
5.	Implementation Of Electronic Voting Machine Via Data Retrieval System	This project is designed to prevent rigging up to maximum extent. The controller section continuously for the input. Once the input is taken, it does not take the input again until it gets the access from the supervisor control.
6.	Touch Me Not A Fun Game	This project is mainly designed as Events to be conducted at Exhibitions, Fetes etc. This project includes different interfacing with the microcontroller.

7.	AC motor speed control using TRIAC	The speed of AC motor can be varied rapidly on and off by TRIAC.
8.	Phase Sequence Indicator and Controlling System	The controlling unit continuously whether 3-phase is coming from the line or not so as to run the motors which run only with 3-phase. If 3-phase is not coming, the controlling unit automatically shuts down the system.
9.	Boiler Monitoring and Control System	The temperature is measured and controlled for the industrial boilers.
10.	Involuntary Industrial Power Scheduler using Embedded System	The power management in the industries can be done effectively using this project.
11.	Power Saver for Advertisement Hoardings using RTC	This system switches on the lights only at preprogrammed timings using RTC thus saving the power up to the maximum extent.
12.	Solar Tracker for acquiring maximum power	The project aims at designing a system that would sense and follow the position of the sun and rotate the panel in the direction of the sun to obtain maximum power output.
13.	Automatic Liquid Dispensing System used in Tea/Coffee, Soft drink Vending Machines	The controlling unit detects the choice of the soft drink pressed by the user and starts dispensing the liquid when the cup is placed on the tray of the vending machine.

14.	Water Scheduling for Municipalities	Water supply to different localities is done on time basis. The supply will be automatically cut once the time allotted to that particular locality lapses.
15.	Electronic Security System for Homes/Industries with auto dialer	This system provides security to the homes or offices by interfacing sensors with the controlling units. If anything goes wrong, the system automatically dials up to the predefined number and also activates the alert system
16.	Implementation of Digital Calendar	This Project Digital Calendar using Microcontroller is an advanced digital calendar, which displays the Date, Day and Month over the LED display.
17.	Energy Saver for Automatic Room Light Controller with Visitor Counter	The system aims at saving the power by switching on/off the light depending upon the sensor output. It also counts the number of persons present in the hall and displays this value on the LCD.