

# LIST OF PROJECTS

PROJECT	DESCRIPTION	PRICE (Rs.)
<b>Clap switch</b>	This is also a microcontroller based project. Whenever you clap your hands, the connected device(TV, Bulb, Fan etc.) will be ON and OFF. It has good range to operate in anywhere in the room.	<b>2800</b>
<b>Room temperature controller</b>	You can set a suitable temperature. When temp. rises above this preset value, a cooler fan socket will be ON. If temp. falls below the preset value, a room heater socket will be ON. Hence, it can be used in any season. Also it indicates very accurate temperature(-55 to +125 degree celsius) on an LCD display. <b>(Free bulbs for output checking)</b>	<b>5700</b>
<b>GPS receiver</b>	It can locate the position on earth of GPS handler. The location can be seen on an LCD display.	<b>5800</b>
<b>Voice controlled switchboard</b>	Switch your lights, tv, fan etc. through voice command. For example; if you say "light 1 on" the respected light will be switched on. You just need an smartphone to send the voice command through Bluetooth. The smartphone application is provided with this project.	<b>6500</b>
<b>GSM based data logger</b>	When any person gives a miss call to the number of this project then a text message of data(temperature and humidity) are sent back to the person's mobile. By this project, you'll be able to know your office /house temperature & humidity.	<b>6500</b>

## Wireless Communication & Remote Control


<b>1-Channel Mini IR Remote control</b>	Switch a device like TV, Bulb, Fan etc. using any remote controller. This SMPS supply based project is also called as "Remote control tester". Whenever you switch any remote button, device connected with this project will be ON and OFF. This project has inbuilt EEPROM memory retention capability. <b>(Free bulbs for output checking)</b>	<b>2800</b>
<b>4-Channel RF remote control</b>	Switch your home appliances like bulb,fan,motor etc. with a hand remote unit from a long distance (Range 100 meter).You can control it from outside of the house with a larger distance. <b>(Free bulbs for output checking)</b>	<b>5000</b>
<b>4-Channel IR remote control</b>	Switch your home appliances like bulb,fan,motor etc. with an infrared hand remote unit. <b>(Free bulbs)</b>	<b>5000</b>

<b>Remote control fan regulator</b>	Convert a common fan or cooler into a remote control system using this project. It can switch and regulate the fan speed with an infrared remote control unit. <b>(Free bulbs for output checking)</b>	<b>4700</b>
<b>GSM based switchboard</b>	Switch your lights, tv, fan etc. through sms or by miss calls . For example; if you send an sms "light on" the respected light will be switched-on or if you send an sms "fan off" the respected fan will be switched-off.	<b>6500</b>
<b>Wireless status indicator</b>	Indicates wirelessly which devices are in on/off condition through LEDs.	<b>3800</b>

## Flying things

<b>Drone "The Quadcopter"</b>	Drone is a mega project. It has four brushless motors with long cross arms. A high definition camera is mounted to record the sky view flying video. A smart joystick remote controller is used to operate the drone to move in any direction with 1km flying range.	<b>24000</b>
<b>Airplane</b>	This is the replica of actual airplane. It is a large size foam body with extra-large wings. An smart joystick remote controls the plane to move in any direction with 1km flying range. Fly this over the clouds.	<b>25000</b>

## Mechatronics Robot

<b>Pick &amp; Place Robot</b>	It is made by cutting edge technology with higher in degree of freedom. It can lift up any small weight and then place it to another place by simply pick and place action. It contains a wired remote control joystick to control the robot body.	<b>7000</b>
<b>Pick &amp; Place Vehicle Robot</b> 	It is an Android operated solid metal based army designed tank robot with tracking wheels. It can lift anything and transport it to a long distance. It have a good lifting capacity than any other robot comes with long lasting rechargeable battery. It is controlled by an Android phone with "SGPROJECTS" official application. <b>(Free charger)</b>	<b>9500</b>
<b>Pick &amp; Place Vehicle Robot with Wi-Fi night vision HD camera</b>	It is an Android operated solid metal based army designed tank robot with tracking wheels. It can lift anything and transport it to a long distance. It have a good lifting capacity than any other robot comes with long lasting rechargeable battery. It is controlled by an Android phone with "SGPROJECTS" official application. Instead of this, it has a camera mounted on top to take live pictures & video though the smartphone. <b>(Free charger)</b>	<b>15000</b>
<b>Fire Fighting Robot</b>	Designed to control against fire by water-jet spray system. It is a four wheel drive system controlled by an Android phone with "SGPROJECTS" official	<b>8000</b>

	application. It comes with long lasting rechargeable battery. <b>(Free charger)</b>	
<b>Line Following Robot</b>	It is an smart robotic drive. It follows a continuous black line on a white platform.	<b>5500</b>

## Power Electronics

<b>Over-Under voltage protector</b>	This is an programmable LCD based voltage control system which disconnects the power supply if the voltage is higher or lower than the required voltage. The amount of voltage can be set at any time. Also the real time voltage can be seen on an LCD screen.	<b>5000</b>
<b>Wireless charger</b>	Steps ahead to the future by charging your mobile without connecting any wire. You can see this feature on Samsung Galaxy S6 model.	<b>4200</b>

## Timers & Counters

<b>Bidirectional Visitor Counter</b>	When somebody enters into the Room then the Counter is Incremented by one and when any one leaves the room then the Counter is Decrementd by One. The total number of Persons inside the Room is displayed on the seven segment displays.Working principle is based on interruption between LED & LDR sensor. An buzzor also indicates the operation.	<b>5000</b>
<b>Automatic college bell</b>	Also called 'school bell'. It can save upto 25 alarms per period to ring a buzzer at loud sound for an specific time interval.An LCD shows the real time & date also.The user can change all data with a matrix keypad.	<b>5000</b>
<b>Digital Time keeper</b>	If you want to know that a machine remains ON for how long time instead of power failure then this project is the solution. It regularly monitors the machines runtime in minutes and shows on a 7-segment display. It does not resets the count even on power failure.	<b>3000</b>

## Water Related Projects


<b>Tank motor controller</b>	Tank motor controller with LED & alarm features. When tank is full of water,an alarm arises with blinking LED and motor will automatically switched-off. <b>(cooler pump free)</b>	<b>3500</b>
<b>LCD based water level indicator with alarm</b>	Indicates different level of water in the tank through an LCD.When tank is full of water an alarm produces. <b>(cooler pump free)</b>	<b>3700</b>

## Security Systems

<b>Earthquake alarm</b>	This is an important life-saving project which produces an emergency alarm when there will arise any earth vibration.	<b>3000</b>
<b>Digital code lock</b>	Power supply can be interrupted using button lock code. Any device like bulb/fan connected to the output socket can be switch-on by entering the correct password. Password is rechangable & an LCD is provided to see the operation.	<b>4200</b>
<b>Motion sensor alarm</b>	Nobody can enter your home without your permission. It's an antitheft project. Whenever a person comes in the area of motion sensor camera, it rings with a loud sound.	<b>4000</b>
<b>Laser cut alarm</b>	In this project, a laser beam is transmitted by the project and reflected back through mirrors continuously. Whenever any object cuts the laser beam, an alarm will produce. You can use a number of mirrors to transmit this laser beam. <b>(mirror free)</b>	<b>4200</b>
<b>LPG gas sensor alarm</b>	This is a simple to use LPG Gas Sensor Module which can sense the presence of combustibile gases mainly LPG, Isobutene, and propane in the air. Hence a buzzer sounds. <b>(free lighter for testing)</b>	<b>4000</b>
<b>Motion activated GSM security system</b>	You can protect your house from unauthenticated accidents. It is an advanced antitheft system Whenever a person comes in the area of motion sensor camera, it will detect your motion and sends an SMS or dial a call to your mobile phone to alert that the motion is detected. The sender number and call/sms function can be set at any time. <b>(GSM antenna free)</b>	<b>6500</b>
<b>GSM based door locking system</b>	You can protect your house/office/bank from unauthenticated opening of safe doors. It is an advanced antitheft system. Whenever a person try to open the door, it will detect this and sends an SMS or dial a call to your mobile phone to alert that the motion is detected. The sender number and call/sms function can be set at any time. <b>(GSM antenna free)</b>	<b>6500</b>
<b>LPG gas activated GSM security system</b>	You can protect your house from unauthenticated accidents. It is an advanced antitheft system Whenever LPG gas is leak to the environment , it will detect and sends an SMS or dial a call to your mobile phone to alert that the motion is detected. The sender number and call/sms function can be set at any time. <b>(GSM antenna &amp; testing lighter free)</b>	<b>6500</b>
<b>GSM based notice board</b>	Whenever you send any message to this project, this will show this message in an LCD display. Hence you can inform your students or relatives about any important matter even you are in any place in the world. <b>(GSM antenna free)</b>	<b>6500</b>



## Smart Measurements & Recordings


<b>Liquid supply system</b>	Also called "fuel supply system". You can supply an exact amount of liquids like milk, water, petrol, carosene etc. This project has buttons to set the amount of supply and an LCD to see the setting. A motor is used for liquid pumping. (cooler pump free)	<b>5000</b>
<b>Electronic measurement tape (Ultrasonic Distance sensor)</b>	It is a modern portable contactless length measurement machine suitable for civil designers. It measures accurate distance where normal tapes are unable to reach. An LCD shows the measured data with a range about 5m.	<b>4000</b>
<b>Digital compass</b>	You can detect the direction(N,S,E,W) by this device. A buzzer indicates the direction. This compass technique is also used in smartphones.	<b>4000</b>
<b>Digital data recorder</b> 	In this project environment temperature, humidity and the AC supply voltage is displayed on an LCD and also it can be recorded to a memory card in real time. Then plug this memory card to a laptop, PC, mobile and you can see the recorded data with time for future inspection. On a 2GB card, more than 10 months data can be recorded. The project also featured with clock display. The time is displayed on the LCD and can be set at any time with buttons provide on it. (Free 4GB microSD card + SDcard adapter + SD card holder)	<b>5800</b>
<b>Heart rate monitor</b>	It is a perfect medical instrument. Forgot the old stethoscope and design this PC/laptop based project to count the heartbeat with graphical representation on computer monitor by just placing your fingertip. It also has snickometer for graph analysis. Using this project, you need a PC or laptop. Application software is also provided with this project.	<b>4800</b>

## Measurements of Environmental Data

<b>Digital barometer cum thermometer</b>	Barometer is generally used to measure atmospheric pressure. This device also have the temperature indicator. An LCD shows the temperature and barometric pressure.	<b>4000</b>
<b>Analog type thermometer (extra-large size)</b>	This is a large size meter to indicate the temperature. It has Celsius scale printed on it. A long needle and spindle are used by analog technique.	<b>4000</b>
<b>Temperature cum humidity indicator (using LCD)</b>	Indicates environment temperature and room humidity on an LCD display in degree Celsius and percentage respectively.	<b>4000</b>
<b>Contactless thermometer</b>	It can show the temperature of any object without any contact with that. For example, you can measure your body temperature or you can measure the temperature of bike silencer. Also the environment temperature is indicated.	<b>4600</b>

<b>Digital temperature indicator ( using 7-segments display)</b>	Indicates very accurate temperature on the 7-segment display, Range: -55 to +125 degree Celsius.	<b>3500</b>
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## Door Opening System

<b>RFID based door opening system</b> 	The door is opened and closed automatically when a valid RFID-card is swiped near to it like in an ATM machine. First the RFID card is need to register on the project by using buttons provided on it. Then swipe this card near the project. If the card is registered, the door will open and close itself automatically. If the card is not registered then it shows 'invalid' on an LCD. Upto 10 numbers of RFID cards can be added. <b>(Free 3 RFID cards)</b>	<b>6500</b>
<b>Password operated door opening system</b>	A predefined password is used to open the door. If password is wrong then an LCD shows it is invalid and the door does not open. If the password is correct, the door will open and after sometime closes itself automatically.	<b>5500</b>
<b>Laser cut door opening system</b>	When a person cuts the laser beam, the door will open and close itself automatically.	<b>5000</b>
<b>Motion activated door opening system</b>	The door opens while detecting any movement near it and after sometime closes itself automatically. This is a modern technology, mostly used in malls and office buildings.	<b>5000</b>

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