

**Student Project List**

S.No.	Title	Project Details	Circuit component	Price Rs.
1.	Electronics Voting Machine	Electronics voting machine with 4 push buttons for user input and the number of votes will be visible on LCD.	Microcontroller, LCD display, Push Button.	1000
2.	IR Remote Control For Home Appliances	Control almost every home appliance like lights, tv, etc. with IR based remote control.	Walnut Infrared module, Microcontroller, Relays .	750
3.	RF Remote Control For Home Appliances	Control almost every home appliance like lights, tv, ac etc with RF based remote control.	Walnut RF module, Microcontroller, Relays .	1900
4.	Automatic Room Light Controller	Room light controller from automatic switching of lights on or off.	Walnut Light sensing module relays.	600
5.	Digital RPM Meter	Digital RPM meter for measuring RPM of almost every motion.	Photo Proximity sensor, microcontroller, LCD display.	1000
6.	Visitor Counter	Visitor counter to count the number of visitors entering a hall or gate.	Walnut Infrared module, microcontroller, LCD display.	1000
7.	Parking Counter	Parking counter for counting the number of cars in a parking lot.	Walnut Infrared module, microcontroller, LCD display.	1000
8.	Temperature Indicator	Temperature indicator to sense and display the current temperature of environment digitally with fuzzy logics.	Walnut Temperature sensor, microcontroller, LCD display.	1000
9.	Digital Thermometer	Digital thermometer to sense and display the human temperature on LCD.	Walnut Temperature sensor, microcontroller, LCD display	1000
10.	Humidity Indicator	Humidity indicator to sense and display the current humidity of environment digitally with fuzzy logics.	LCD, Walnut Humidity Sensor, microcontroller	1150
11.	Digital Clock	Digital clock to display current time H/M/S with time setting functionality.	Seven Segment, microcontroller Push button.	750
12.	Real Time Clock	A real time clock with day and date functionality	RTC, microcontroller, LCD, push button	1050
13.	Water Level Controller	Water level controller for sensing the level of water in tank, LED indication and switching water pump on / off.	Walnut water level sensor, Microcontroller, relay , LED	700
14.	Wireless Water Level Controller	Wireless water level controller to control the switching of water pump on/off wirelessly on monitoring water level in tank with LCD display.	Relay, microcontroller, Walnut water level indicator, Walnut RF module, LCD	1900
15.	DC Motor Speed Controller	Motor speed controller based on PWM (Pulse Width Modulation) with RPM display.	DC Motor, microcontroller LCD	950
16.	Attendance Recording System	Intelligent attendance recording system with dynamic functionality.	Walnut active Rfid module, microcontroller, LCD	2800

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17.	Fire Safety System	Fire monitoring by a specialized sensor module based on smoke and temperature sensing.	Walnut fire sensing module, microcontroller, alarm.	<b>750</b>
18.	Anti-Theft Alarm	Anti-theft alarm system for Safe/almirah based on IR technology.	Walnut IR sensor module, Buzzer, microcontroller	<b>850</b>
19.	Quiz buzzer System	Quiz buzzer system involving 4 action buttons and LED.	Push Button, microcontroller, buzzer .	<b>1100</b>
20.	Programmable Automatic School Bell System	Programmable School Bell System includes automatic lecture timer for bell with time setting functionality.	microcontroller, RTC, Buzzer, push button, LCD	<b>1050</b>
21.	Anti-Sleep Alarm For Security Guard	Anti-sleep alarm for security guard especially during night duty.	Push Button, microcontroller, buzzer .	<b>600</b>
22.	Wireless Notice Board (with computer software)	A modern digital notice board controlled with a computer.	LCD display, Walnut Terminal, Walnut RF module, microcontroller.	<b>2750</b>
23.	Keyless Car on/off	Keyless car on/off system for turning a car on/off without a key.	Walnut RF module, microcontroller, Rely	<b>2550</b>
24.	Automatic Garden Light Timer/Sprinkler timer	Automatic garden light controller for automatic controlling garden light according to timer setting.	relay, microcontroller, push button, LCD	<b>1000</b>
25.	Frequency Measurement	A complete Frequency meter to measure and display frequency on LCD.	Microcontroller, LCD, Photo proximity.	<b>900</b>
26.	Current Meter Digital	A complete current meter to measure and display ampere reading on LCD. (0-1A DC)	Microcontroller, LCD display.	<b>900</b>
27.	Sequential Timer	Sequential timer for automatic controlling of 4 sequential tasks Motors.	microcontroller, LCD display, relay	<b>1150</b>
28.	FM Transmitter 1.2 Km	Transmitter to transmit audio signals within 1.2 km range	Walnut customized FM transmitter	<b>1150</b>
29.	Variable Power Supply 0-24v DC	Power supply with variable output of voltage range 0-24v DC	analogue circuitry	<b>800</b>
30.	Wireless Chatting System Between Two PCs	Chatting system based on RF technology to transmit/receive messages between two computers.	Walnut RF module	2850
31.	Home Appliances Control using PC	Controlling home appliances from a PC	Walnut terminal, Walnut RF module microcontroller, Relays.	<b>3400</b>
32.	Line Follower Robot	Line follower robot which follows a particular colour line.	Robot	<b>4500</b>
33.	Edge Detector Robot	Edge detector robot which has a capability to detect an edge of floor.	Robot	<b>4500</b>
34.	Never Falling Robot	Never falling robot	Robot	<b>4500</b>
35.	GSM Controlled Robot	A robotic car controlled with any mobile phone.	robot, GSM modem	<b>7000</b>

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<b>36.</b>	RF Controlled Robot	A robotic car controlled with RF.	robot, Walnut RF module	<b>6500</b>
<b>37.</b>	Metal Detector Robot	A proximity sensor fixed inside a moving robot to identify metal.	Robot, proximity sensor, Buzzer.	<b>5500</b>
<b>38.</b>	Wireless Data Transmission	A common module to transmit any data wirelessly between two nodes.	Walnut RF module, microcontroller, LCD	<b>1850</b>
<b>39.</b>	Automatic Railway Crossing Gate	A controller to close/open railway crossing gates automatically.	Sensor, microcontroller, Buzzer.	
<b>40.</b>	Micro-controller Development Boards	Micro-controller development controller for ATmega8, AtMega16, ATmega32, 8051 With on board power supply, serial port.	analogue circuitry	<b>1200</b>