

## Feasibility report

**Title: Smart Socket**

**Group members:**

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<b>Tools required</b>	<b>Testing possibility</b>	<b>Controller</b>	<b>Cost</b>
<b>Hardware/components:</b>  1.5V Power Supply 2.Relay Circuit 3.AC Socket 4.Bulb 5.ESP Module	<b>Hardware :</b> Yes	<b>ESP8266 Module</b>  (The ESP8266 module enables microcontrollers to connect to 2.4 GHz Wi-Fi. It can be used with ESP-AT firmware to provide Wi-Fi connectivity to external host MCUs, or it can be used as a self-sufficient MCU by running an RTOS-based SDK)	1) 350/- 2) 200/- 3) 120/- 4) 220/- 5) 180/-  <b>Total Cost:</b> <b>1070/-</b>
<b>Software</b> Proteus Arduino IDE	<b>Software</b> Yes	.....	
<b>Tools available within campus or outside</b>	<b>Sensors required</b>	<b>Signal conditioning if any</b>	
<b>Outside</b>	<b>No</b>	<b>Yes</b>	
<b>Applications if any</b>	<b>PCB design and fabrication</b>	<b>Datasheets/ application notes available</b>	
<b>Remote Control</b> <b>Power Saving</b> <b>Automatic Access to Power Devices</b>	<b>Yes</b>	<b>Yes</b>	
<b>Mechanical design</b>	<b>Enclosure design</b>	<b>Demonstration</b>	
<b>No</b>	<b>Yes</b>	<b>Yes</b>	