

## Smart Circuit Breaker Using IoT

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### Abstract

Now a days, electrical accidents of the line man are increased day by day due to electrical shocks, while repairing the electrical lines and this happens due to the lack of communication between the electrical substation and maintenance staff. Thus, to ensure the safety of line man, a system is proposed using ESP 8266 to control i.e, ON/OFF the electrical lines. In this system, the maintenance staff or lineman has to login into ThingSpeak Application to ON/OFF the electrical line. If there is any fault in electrical line then lineman will switch off the power supply to the line by using ThinkSpeak application and comfortably repair the electrical line, and after completing the maintenance, the lineman will switch on the supply to the particular line b using ThinkSpeak application. The relay ON/OFF operation will be indicated by the LEDs, also it displays the status on LCD. As soon as the maintenance work is finished the line man can log out the ThingSpeak Application. The Smart Circuit Breaker Using IoT is shown in Figure 1.

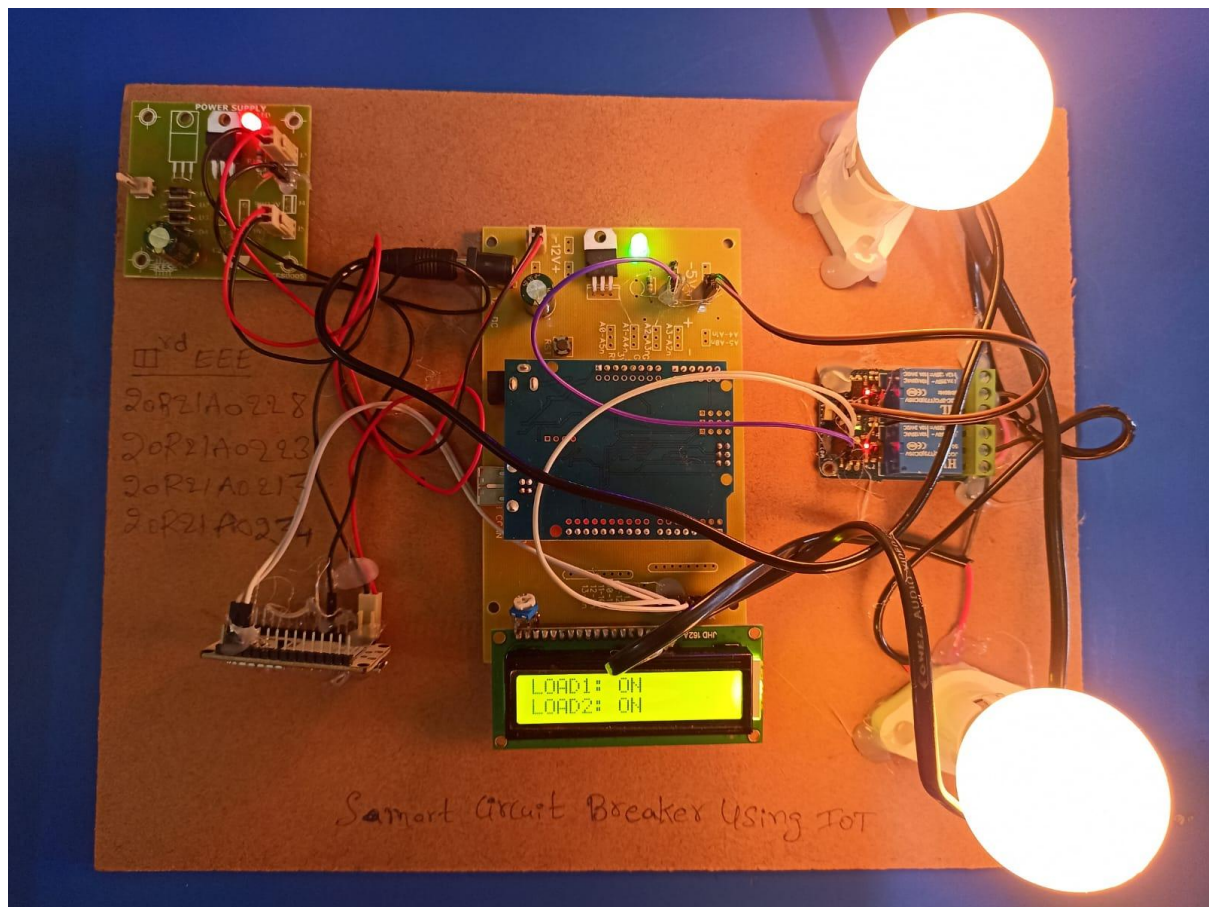


Figure 1. Smart Circuit Breaker Using IoT