

Dadi Institute of Engineering & Technology



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NH-16, Anakapalle, Visakhapatnam-531002, Andhra Pradesh.

(IOTDA-2K21)

17-18 Dec, 2021

**Department of Computer Science & Engineering
and Electronics & Communication Engineering**

Proceedings of Two Day Online National Conference on Internet of Things : Design & Applications

Sponsored by



Chief Patron : Sri Dadi Ratnakar, Chairman

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Conference Website Link

diet.edu.in/iotda2k21



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SMART POWER FACTOR SMART POWER FACTOR CONTROLLER

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ABSTRACT: It works on the basic principle of shunt capacitance, which acts as a compensator to lagging current and makes resultant Power factor to unity. Nowadays, due to the increase in different types of appliances, the variable types of loads are leads to disturbance in resultant Power factor can cause damage to other loads and increase in power consumption. Using capacitors banks operated by relay circuits makes the current in phase with the voltage. We use a smart WIFI-enabled switch to perform ON and OFF operations remotely whenever required.

KEYWORDS: Relays, Capacitors, Wifi-enabled switch, Inductive load, Resistive load, Microcontroller