

# Dadi Institute of Engineering & Technology



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

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## **DYNAMIC ELECTRIC VEHICLE CHARGING SYSTEM**

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**Abstract:** Now a day's world is shifting towards electrified mobility to reduce the pollutant emissions caused by non-renewable fossil fueled vehicles and to provide the alternative to pricey fuel for transportation. But for electric vehicle, traveling range and charging process are the two major issues affecting its adoption over conventional vehicles. For charging process we have to wait for long time at charging stations. To avoid this waiting we have created a prototype of wireless charging system in which we can charge our vehicle by driving the vehicle on the road. For this the components are using Node MCU, IR module, Arduino coding, etc. In order to allow information exchange and to help user mobility, we have also created a mobile application to assist the EV driver on these processes.

**Keywords:** Dynamic charging, Arduino , Node MCU , IR Module