Seminar

Institute for Plasma Research

Title :   To design and develop IoT based smart automation system for industry

Speaker: Dr. Rahul Awathankar
                        VFSTR University, Andhra Pradesh

Date :   03rd June 2022 (Friday)

Time :   10.30 AM

Venue : Online - Join the talk:
                        https://lobby.ipr.res.in/Dr.RahulAwathankar_PDFtalk

Abstract :

Internet of Things (IoT) is a new paradigm that has changed the traditional way of living into a high tech life style. Smart city, smart homes, pollution control, energy saving, smart transportation, smart industries are such transformations due to IoT. A lot of crucial research studies and investigations have been done in order to enhance the technology through IoT. Also there is a huge research in control and automation area using wireless sensor networks (WSN). WSN plays a critical element in smart factories based on Internet of Things (IoT), where information is accumulated and processed to handle the machines relied on the result analysis. In industry weather conditions plays a major role. If there are any sudden changes in weather condition, the machines or equipment causes major damages to the industry and affects economy of the Industry.

It is an advanced technology where we can monitor weather condition and different machine parameters in the industry from anywhere in the world by Using IoT technology. The IoT system will collect the weather condition and various machine parameters like pressure; temperature etc using sensors and if the recorded parameters doesn't match with defined threshold, actuators will start working accordingly. All the recorded data will be available to the distant user with the help of internet application. The proposed work will interference awareness in IoT based smart industries with a focus on real-time control.