

IoT Based Smart Agriculture System

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Abstract: *In every country agriculture is done from ages which are considered to be science and also art of cultivating plants. In day today life, technology is updating and it is also necessary to trend up agriculture too. IoT plays a key role in smart agriculture. Internets of Things (IoT) sensors are used to provide necessary information about agriculture fields. The main advantage of IoT is to monitor the agriculture by using the wireless sensor networks and collect the data from different sensors which are deployed at various no des and send by wireless protocol. By using IoT system the smart agriculture is powered by Node MCU. It includes the NPK sensor, moisture sensor and DC motor. This system starts to check the NPK level and moisture level. The sensors are used to sense the level of water & fertilizer and if the level is below the range, then the system automatically stars watering. According to the change in temperature level the sensor does its job. IoT also shows the information of NPK level, moisture level by including date and time*

Keywords: IoT, Soil Moisture and NPK sensors, Relay, Wi-Fi module ESP8266, GPS, etc

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