

A

Report on

IOT SMART PLANT MONITORING SYSTEM

A report submitted for the partial fulfillment of the requirements for Mini Project of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**MINI PROJECT**

**(IOT SMART PLANT MONITORING SYSTEM)**

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## **IOT SMART PLANT MONITORING SYSTEM**

### **ABSTRACT**

Plants play a vital role in maintaining the ecological cycle, and thus to maintain the plants proper growth and health, adequate monitoring is required. In India 83% of water is consumed by agriculture. If there are no plan for the usage of Water in farms, then it causes wastages of water and these problems facing by the farmers related to watering system that how much water has to supply at what time? Sometimes overwatering causes the damage to crops and as well as waste of water. Hence for avoid such damage we need to maintain appropriate water level in soil. Internet of things is one of the most easily accessible form of connectivity. Improper supply of water can affect both the soil and the crops. A feasible controlling system can be of use to overcome this problem. In this project, IOT is employed to create a smart monitoring system for the crops. This can help in improving the yield without affecting the soil quality. Measure the features like temperature, humidity and soil moisture in the system. This will be enhancing the growth of plant. So, we need a system which will efficiently supply water by using smartphone anywhere from the world. Blynk app is also used in this system. So, we have to implement this system.