Monitoring And Foging System With Automatic Sprayer On Iot Based Mushrooms.

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ABSTRAC

Mushrooms are wild plants and often grow in damp places, used rice bran and even grow on rotten trees. So far, the cultivation that has been carried out is still manual, usually watering the mushroom cages in the morning and evening. In this case, research was carried out on monitoring the temperature and humidity of oyster mushroom cages and "IoT-based" automatic misting combined with the BLYNK application which can be opened on an Android smartphone by relying on an internet connection so that you can find out the temperature and humidity inside the oyster mushroom cages. This system uses a DHT11 sensor whose function is to read temperature and humidity so that it sends data to the ESP32 which is then sent to the user via the BLYNK application. If the temperature obtained is more than the predetermined temperature, it will give a fog effect to the baglog automatically and the indicator in the BLYNK application will light up as a notification to the user that inside the mushroom house, fog is being carried out to reduce the temperature of the house and when the temperature is less than the same with a predetermined temperature, the misting will stop and the indicators in the BLYNK application will turn off, to be able to see the temperature and humidity of oyster mushroom mushrooms via the BLYNK application, you must first connect to the internet, both from the oyster mushroom mushroom monitoring tool and automatic misting based on IoT or smart phone used.

Keywords: Monitoring, Automatic Sprayer, Mushroom