

## ***ABSTRACT***

Final Project Paper entitled IOT-based Monitoring of Air Quality, Temperature and Humidity Monitoring in Tea Plantations is carried out based on the implementation of IoT. At this time, air quality and weather are the most influential in life, to anticipate weather fluctuations and air quality that change from time to time and from one place to another, a measurement tool is needed. The purpose of this study is to monitor parameters in the air. And also monitoring the temperature and humidity levels. Making tools that can monitor using sensors namely MQ135 and DHT11.

The research includes the design of the IoT microcontroller program, and Blynk. The research method will be using several testing tools. The results of research that have been done can show that the ppm value of good air quality is below 1000 ppm. Comparison of Temperature and Humidity is inversely proportional. When the temperature rises, the humidity will drop. Vice versa, when the temperature drops, then the humidity will rise.

After completion of the results of this study, it is expected that the results of this study can be useful for the industry related institutions. Especially where it is most needed.

Keywords — air quality, temperature and humidity, blynk.