

ABSTRACT

Garbage is the most common problem nowadays. It is still common to see an inappropriate garbage or an official who has not yet thrown the garbage into the garbage disposal, such a thing may cause discomfort during an activity that even causes air pollution. One way of processing organic waste is by deconstructing organic waste by feces. Therefore, the officers should monitor the organic waste treatment. Most organic waste processing plants are monitored through temperatures, ph and weight to know the correct conditions as they handle the organic waste.

To make it easier to monitor current organic waste processing that is currently done by hand and will take considerable time to implement, the research is aimed at designing and implementing a device that can monitor organic waste treatment using temperature sensor modules, Ph and weight sensors that are then linked to nodemcu esp8266 that act as a microcontroller will process and transmit the data to the user through the application.

The study was able to monitor the treatment of organic organic waste matter based on temperature, ph and weight with a temperature reading rate of 1.32%, a ph sensor of 1.2%, and a 2.9% weight sensor. The monitoring result would be a good recommendation for officials to manage the organic waste readings to remain in good condition.

Kata Kunci: *Maggots, Iot, Monitoring, Waste.*