

## ***ABSTRACT***

In this modern era technology is developing rapidly, one of which is technology in the field of animal husbandry which can be implemented by chicken farmers by making chicken egg incubators. This technology is very helpful for humans to increase the production of chicken eggs. The use of this technology is also influential to facilitate human life. There are several methods that can be used to become the brain in an incubator that will be used, one of which is the Fuzzy Logic Tsukamoto method. Fuzzy Logic Tsukamoto is an appropriate way to map an input space into an output space. This method is an algorithm that will be the brain of an incubator.

In an incubator, temperature, humidity, and egg turning system must be considered to get optimal egg production results. In this system there is a DHT-22 sensor and a synchronous motor that will move inside for 30 seconds and will turn off after 3 hours of movement. The data will be processed by the Wemos D1 port, then the microcontroller will give a command. Wemos D1 contains a program to change data or Wi-Fi on a smartphone to display the temperature or humidity value in the incubator. This technology is equipped with a heater that uses incandescent lamps to be used with the DHT-22 sensor whose data will be collected on the Wemos D1 to be sent to the server.

**Keywords:** Fuzzy Logic Tsukamoto, Wemos D1, Incubator, Sensor DHT-22