

ABSTRACT

This study entitled "DESIGN OF CATFISH FEED AUTOMATION SYSTEM USING NODEMCU ESP8266 BASED ON THE INTERNET OF THINGS". This research is motivated by problems in catfish farming regarding feeding because it is an important factor in the growth of catfish. Feeding is often uncontrolled, such as when it is constrained by the owner or feeder being at a distance from the pond. This study aims to design and manufacture an automatic fish feeder and determine the size and condition of the availability of fish feed. The method used is starting with the design, system implementation and testing, as well as analysis of the results. The results of this study stated that a device for feeding catfish automatically had been successfully designed with a feed container size of 120 grams for a capacity of 600 catfish in one pond capacity and a catfish feed requirement of 0.36 kg per day so that the schedule for feeding was known precisely. appropriate feed, namely 3 times a day so that IoT technology allows controlling fish feeding can be done remotely by utilizing the NodeMCU ESP8266 microcontroller.

Keywords: NodeMCU ESP8266, IoT, Catfish