

## ABSTRACT

Cultivation and consumption levels of catfish in Indonesia are still high and are one of the sectors that are being pursued by the government in improving the fisheries sector in Indonesia. With the promise of this catfish business, it is necessary to have good handling. However, catfish farming is still often constrained by the quality of the water used in the pond. Various methods are used to overcome these problems and obtain good quality catfish, one of which is by utilizing the biofloc method. The biofloc method promises better water quality treatment. But there is still a manual process in it and can reduce the effectiveness of the biofloc method in catfish ponds. With the development of current technology, it is possible to apply digital technology to catfish biofloc ponds. This study aims to implement an IoT-based system for monitoring water quality in catfish biofloc ponds and also predicting water quality with linear regression. This system is expected to maximize the effectiveness of the biofloc pond to get good quality catfish and make catfish farming more modern.

**Kata Kunci :** biofloc, catfish, internet of things, linear regression