

**Sistem Kendali Nutrisi dan pH Pada Tanaman Pakcoy Hidroponik Nft
(Nutrient Film Technique) Berbasis Iot Menggunakan Metode Fuzzy. (Nutrient
and pH Control System in Iot-Based Nft Hydroponic Pakcoy Plants Using the Fuzzy
Method)**

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ABSTRAK

Nutrition and pH control system is a system designed to control nutrient levels and pH in pakcoy plants on hydroponic NFT (Nutrient Film Technique) based on plant needs. Pakcoy plants on hydroponics are able to grow optimally if the nutrient water is 1059-1400 PPM and the pH is 6.5-7. Lack of nutrient levels can cause pakcoy plants to experience poor growth, especially on the stems and leaves. The pH value also affects the absorption of plant roots in nutrient water so that plants can meet their needs. To overcome this problem, an Internet of things-based control system using the Fuzzy method has been created which is able to keep nutrients and pH stable. From the test results, the accuracy of the sensor used by this tool is able to stabilize nutrients and pH automatically.

Keywords: *Internet of Things, Fuzzy Sugeno, hydroponics, pakcoy mustard.*