

ABSTRAK

RANCANG BANGUN SISTEM INFORMASI IDENTIFIKASI KUALITAS AIR KOLAM IKAN LELE MENGUNAKAN *FUZZY INFERENCE SISTEM* MAMDANI BERBASIS MATLAB

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Ikan lele adalah ikan tawar yang paling populer sebagai ikan budi daya, tetapi kurangnya perhatian pada kualitas air kolam lele menggunakan Fuzzy inference sistem mamdani berbasis matlab bertujuan untuk memberikan informasi kualitas air kolam kepada pembudidaya beserta solusi.

Perhitungan dilakukan berdasarkan inputan pembudidaya berupa Suhu, PH, TDS, dan Konduktivitas. Aplikasi ini dibangun dengan tools matlab.

Kata Kunci : Kolam Ikan, Fuzzy, Mamdani, Matlab.

ABSTRACT

DESIGN AND DEVELOPING INFORMATION SYSTEM OF IDENTIFICATION INFORMATION SYSTEM ON THE CATFISH POND'S WATER QUALITY USING FUZZY MAMDANI SYSTEM BASED ON MATLAB

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Catfish are the most popular freshwater fish as aquaculture fish, but the lack of attention to the quality of the pond water has decreased production. Identification of water quality of pond catfish using a Mamdani based Fuzzy Inference System on MATLAB aims provide water quality's information to fish farmer.

Calculation is based on the input from farmers which include temperature, pH, Total Dissolved Solids and conductivity. This application is built with MATLAB.

Keywords: *Fuzzy, pond, Mamdani, Matlab*