

PERANCANGAN SISTEM MONITORING PENCEMARAN AIR LIMBAH BATIK BERBASIS INTERNET OF THINGS

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ABSTRACT

Indonesian Batik is growing not only as a culture but also as a national identity and identity after obtaining recognition from the United Nation Educational, Scientific and Cultural Organization (UNESCO). The batik industry is increasing due to increased sales of batik, but environmental conditions are declining. The purpose of this research is to design a water pollution monitoring system by utilizing sensor technology and the Internet of Things (IoT). The method used in this research is to determine the object and subject matter to be studied, problem formulation by collecting the subject matter, then design by collecting information about the object material to be made, then testing begins by testing whether the tool is functioning properly, The evaluation will assess the success of the tool and website whether it is appropriate. The results of the final project research with the title Designing a Batik Wastewater Pollution Monitoring System Based on the Internet of Thing is the formation of a system that is integrated with hardware such as NodeMcu, Turbidity Sensor, DS18B20 temperature sensor, Sensor MQ-135 monitoring of batik wastewater obtained from sensor reading results with the average temperature error percentage is 7.92% for batik dye wastewater and the average error for Tubidity is 0.89% while MQ-135 is 0.35%..

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