

## ***ABSTRACT***

Humidity Modeling in Telkom University Landmark Tower Using Internet of Things (IoT) and Long Short Term Memory (LSTM) Networks is an effective approach to monitor and control conditions and humidity inside Telkom University Landmark Tower (TULT). IoT is used to collect humidity data from sensors installed in the Telkom University Landmark Tower (TULT), while Artificial Neural Networks are used to create mathematical models of humidity conditions in the Telkom University Landmark Tower (TULT). This model is then used to predict future humidity conditions and control ventilation and irrigation systems to ensure optimal conditions for plant growth

This implementation uses an Artificial Neural Network (ANN) based on Long Short Term Memory (LSTM) as a modeling algorithm. Humidity data obtained from IoT sensors is used as input for LSTM and the output from LSTM is used to control ventilation and water systems. With this approach, it is hoped that conditions at Telkom University Landmark Tower (TULT) can be optimized.

**Keyword** : ***Humadity. TULT, IOT, LSTM***