

## ABSTRACT

*Situ Tekno is the final water conservation site of all areas at Telkom University. This site is integrated with the green environmental management system and water resources around it in the framework of the green campus program. However, at this time the water quality in Situ Tekno has not been well tested. This can be water pollution that can disturb the surrounding environment.*

*In this Final Project, a monitoring system has been created to determine water quality at Telkom University Techno Site. This water quality monitoring system uses a ship and ESP32 microcontroller as its microcontroller to read water quality in the form of temperature from the DS18B20 Sensor, pH value from the pH meter Sensor, turbidity value from the turbidity sensor, DO (Dissolved Oxygen) value from the DO meter sensor and read data will be sent to the Blynk platform.*

*From the tests that have been done, get results in the form of DO values of 5-8 ppm, pH values of 7-9, turbidity values of 2 07-427 NTU and temperature values of 17-20 °C. From this statement, it can be concluded that the water quality at Situ Tekno can meet the standards of the Government of the Republic of Indonesia and the measurement system can measure the quality of lake water at several points that cannot be monitored by humans and systems Considered more efficient and effective for regular monitoring and can be monitored in realtime.*

**Keywords:** *Situ Tekno, ESP32, pH, DO, Turbidity, Temperature.*