

## **ABSTRACT**

### **WIRELESS NETWORK DESIGN IN FRI TULT USING NETWORK DEVELOPMENT LIFE CYCLE (NDLC) METHOD**

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*The use of wireless networks in an organization or company is something that usually already exists to connect several computer devices within an organization or to be able to join a company network to the internet. The process of designing a wireless network, it is often done without considering the implementation standards. This can cause problems later if you want to configure the device. Telkom University Landmark Tower is one of the new buildings that has implemented a wireless network as a medium for communicating between computers. However, in its implementation, the wireless network at the FRI TULT Building has not followed the wireless network standard. Therefore, this final project will design a wireless network design at the FRI TULT Building using an NDLC method as a development or design of a wireless network infrastructure design, using the IEEE 802.11 n/ac standard, as well as the Cisco three-layer hierarchical model concept to make it more straightforward and more efficient and easy to understand. Thus, a wireless network design will be produced following standards to be used as a proposal to related parties to be used as a basis for developing and maintaining a wireless network at the FRI TULT Building.*

**Keywords: Wireless Network, NDLC, Cisco three-layer hierarchical model, and IEEE 802.11.**