

## **ABSTRACT**

UWB antenna is one of the radio technology that is widely used today. Every certain frequency range in UWB has services that operate simultaneously, this can lead to new problems, namely interference. For this reason, UWB antennas need to be modified to overcome these problems. One solution that can be proposed is to reject or Notch Band. The rejection of the tape itself can be obtained by adding a slot on the antenna.

In this final project, the design and analysis of UWB antenna design with Triangular Patch with band rejection is carried out. The expected rejection frequency range in this antenna design using a WLAN frequency range from 5.15-5.85 GHz. The method used to reduce electromagnetic interference on the wave by means of rejection band which is added to the slot in the patch antenna.

In this final project, the design of a UWB antenna is carried out with a slot on the patch antenna which serves to reject the band and produce the antenna frequency to work into dual band. The process of adding slots to the patch antenna has been experimentally proven to produce band rejection at the desired frequency in the WLAN frequency range.

**Keywords:** Monopole Antenna, Band Rejection, Notch Band, Triangular Patch