

## ***ABSTRACT***

Program study Telecommunication Engineering Diploma-3 at Telkom University has several laboratory facilities to support teaching and learning activities in practicum. Electronic Telecommunication laboratory is one of practicum laboratory for electronic telecommunication course. Practicum in that course, there are some obstacle that make the practicum activities not effective, such as incompleteness and infeasible practicum kit.

Because of that problem, then the final project was created in designing and realizing the kit for practicum activity in Electronic Telecommunication course. The practicum kit consist of oscillator, mixer, filter, and power amplifier. The process to making that circuits using Altium Designer. Altium Designer is used to design schematic and PCB layout of oscillator circuit, mixer circuit, filter circuit, and power amplifier circuit.

This kit will designed better than the previous kit in term of shape. It is expected that the output of the circuits in this kit is more accurate than before and practicum activities can be more effective.

**Keywords: Electronic Telecommunication Practicum Kit**