

## **ABSTRACT**

The communication system laboratory of STT Telkom equipment is obtained by import. Especially practical kit may created and manage by self until get low cost also easier to fixed if it does not work properly.

In this final assignment writer do design and realization the prototype of practical kit in Communication System Laboratory of STT Telkom also enclose with result analysis from the realization of the design. Realization of prototype practical kit based on the availability of components in the market, in order to multiply the practical kit for practice activity at Communication System Laboratory.

This design and realization the prototype of practical kit include modulator and demodulator: AM, ASK, and FSK with advantage are cheaper, easy to fixed if does not work properly, can show more modulation in any condition according index modulation group in AM and for ASK/FSK modulator can analyze by spectrum analyzer.

*STTTTELKOM*