

## ABSTRACT

*VoIP* is a service or application sound communication through IP (*Internet Protocol*) route to make communication easier by used computer through LAN Network or internet. In this end of project with the title “*DESIGN and REALIZATION VOIP NETWORK in IT TELKOM TRAINING CENTER*” is one of way for trainers to communicate with the other without wasting so much time, where one of the software that is being used as VoIP server and has been calculated because of the cost is cheap, higher reliability, easier used, and interoperability of software that is being used has been supporting many hardware is Asterisk that was softswitch. Asterisk is application open source software dan free ware that can be improved based ourselves and have service like voicemail with directory, conference call, Interactive Voice Response, queue call. Asterisk or softswitch itself is central telecommunication software that can be used to connecting telephone call from one line to another line or computer from one line to another line or computer to telephone. Whereas PC is used as client to communicate PC from one room to PC in another room, software that being used in PC is X-Lite so PC can communicate.

On Asterisk part for softswitch or IPPBX is configured in Linux Operating System as the design dan on the X-lite part for client too is configured as the design so every client can connected with each other and can do VoIP.

Keyword : *VoIP, Asterisk, Linux*