

ABSTRACT

In a practical activity courses required learning materials (modules) in order to be able to support a teaching material for Traffic Engineering courses. Digital Subscriber Line (DSL) can be one of the options as the materials Engineering course traffic. DSL is an access technology that can transmit broadband data service through copper wires that are commonly used as the transmission medium for telephone cable.

Interconnection and configuration on the DSL network aims to provide data services that can be accessed by the user simultaneously with other services such as voice. To do interconnecting and configuring, requires DSL network topology design which is will configured in DSLAM (Digital Subscriber Line Access Multiplexer), after realizing a DSLAM broadband access network interconnection and the user can access data via ADSL (Asymetric Digital Subscriber Line) modem then measured to QoS (Quality of Service).

From the final project entitled "Interconection and Configuration of DSL Broadband Access Network as a Practical Tool in The Traffic Engineering Course in Diploma of Telecommunication Engineering " obtained network results implemented in Swithcing Laboratory of applied science faculty successfully interconverted proved by DSLAM can ping to ISP and modem can accept ADSL connection, seen from ADSL light indicator light on modem. Values for throughput 0.4778 Mbit/sec, , delay 0.0086894 ms, packet loss 0.00%, and jitter0.256 ms are categorized as excellent quality, following ITU-T G.114 standards. The parameter values for ADSL service for SNR and Attenance are included in the good category following Telkom Speedy standard.

Keyword; Digital Subscriber Line (DSL) , DSLAM, ADSL Modem.