

## ABSTRACT

Sophisticated and reliable communications is required to fulfill service at the present and for the future. To fulfill of demand is needed a reliable network, with the capacities to accomodate the big bandwidth and get easily to add capacities, better performance level, high availability level, better flexibility.

The technology of Free Space Optic represent is system of wirreless optic transmission that trusted to handle a lot of problem as communications solution with the very high data transmission speed and compatible using at short haul communications.

The purpose of this final project, to analyse technically and theoretically performance of FSO transmission system such as the link availability, link distance, scattering, absorption and influence to weather. Method is used at this final project are reference with Free space optic communication, getting support data from PT. INTI, analyze and calculation as according to hipotesis and take the conclusion from the analyze, so that is expected will get reliable performance for transmission network.