

Design of DWDM optical network for Tien Son commune area, Bac Giang

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Abstract: This topic aims to analyze and design a Dense Wavelength Division Multiplexing (DWDM) optical network to optimize the information transmission system in Tien Son commune, Bac Giang. The main objective is to improve the efficiency of optical cable usage, increase bandwidth, and ensure the stability of information services in the area. The research methodology includes field assessment, analysis of modern DWDM technology, and practical acceptance design. The expected outcome of this topic is a DWDM system suitable for the technical and economic requirements in Tien Son commune, contributing to the development of information and communication infrastructure in rural areas.

Keywords: DWDM, optical network, rural area