

DWDM technology and its application in Vietnam's telecommunications network

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Abstract: This topic aims to survey the modern technical context of Dense Wavelength Division Multiplexing (DWDM) technology and analyze the rationale for choosing the topic based on the rapid development of telecommunications technology in Vietnam. The objective is to build a suitable DWDM system for the national telecommunications network, addressing the problem of increasing bandwidth and reducing data transmission costs within the network. The research method combines theory with experimentation to ensure the efficiency and feasibility of the system. The expected result is to provide an optimal solution for the Vietnamese telecommunications industry, contributing to the sustainable development of this field.

Keywords: DWDM, Telecommunications, Bandwidth increase, Transmission technology