



WDM Technology Course

Course Duration: 2 days

Course Objectives:

- Properties of Light: Interaction with matter, Reflection types, Emission and Absorption, the Electromagnetic Spectrum
- Optics: Overview of the different ways we look at light
- Optical Communication- WDM: Advantages, DWDM and CWDM, Wavelength Bands
- Optical Fibers: Types of fiber cables, Linear and Nonlinear effects
- Optical Devices: Overview of basic elements of optical networks such as Photodiodes, Transceivers, Splitters/Couplers, Mux/Demux, Transponders, etc.
- Introduction to Lasers: What is a laser? Types of lasers, Operation principles
- Optical Communication- Data Modulation: What is modulation? Types of modulation, Coherent and Noncoherent modulation

Goals:

Upon completion of this course, you will be able to:

- Understand the basic technology behind optical networks

Prerequisites:

- Basic telecommunication background