

Transmission Fundamentals (0.5 day)

For both wireless & wireline communication Transmission Systems are building blocks of underlying network. Transmission media can be a physical cable or optical fiber based or microwave systems. This course provides a good understanding of transmission technologies, characteristics & usage in communication network..

Who Should Attend

This is beginner level course and suitable for professionals & students who have little or no understanding of Transmission systems.

Objective

After completing this course, the audience will be able to:

- Understand Basic Concepts
- Describe transmission types
- Define Networks & Network Models
- Explain optical & microwave transmission

Course Contents

Overview

- What is transmission?
- History
- Evolution
- Transmission types
- Challenges
- Usage in networks
- Components of a Transmission System

Transmission Systems Fundamentals

- Overview
- Digital Signaling
- Microwave Systems
- Optical Systems
- PDH
- SONET /SDH
- AON
- PON

Satellite Communication Basics

- Overview
- Types
- Frequency Bands

Wavelength Multiplexing

ATM overview