

Telecom Essentials

Audience:

Any IT professionals / BE / B. Tech / MCA / BCA / or equivalent graduate student who wants to build ERP knowledge.

Duration:

2 days

Charges – INR 15K plus ST

Unit 1 - Overview of Telecommunications

- **Introduction to Telecommunications**
 - Telecom Overview
 - Brief History of Telecom
 - Modern Telecom
 - Focus of the Course
- **Telecom Basics**
 - Telecom Services
 - Telecom Networks
 - Analog versus Digital Communications
 - Bandwidth
 - Protocols and Standards
- **Telephony and the PSTN**
 - Circuit Switching
 - PSTN Infrastructure
 - Digitizing the PSTN
 - Bandwidth and Multiplexing
 - T and E Carrier Systems
 - ISDN
- **Data Communications and the Internet**
 - Packet Switching
 - Internet Infrastructure
 - TCP/IP Protocol Stack
 - Data Communications Overview

Unit 2 - Telecom Networks and Technologies

- **LAN Technologies**
 - LAN Overview
 - Ethernet LANs
 - Wireless LANs
 - LAN Security

- **WAN Technologies**
 - WAN Overview
 - ISDN
 - DSL
 - X.25
 - Frame Relay
 - ATM
 - Other WAN technologies
- **Wireless Networks and Technologies**
 - Wireless Network Overview
 - Cellular Technology
 - Wireless MANs
 - Wireless PANs
 - Satellite
 - Future of Wireless
- **Optical Networks and Technologies**
 - Optical Network Overview
 - SONET/SDH
 - WDM
 - Future of Optical

Unit 3 - Implementing Telecom

- **Implementing Telecom**
 - Telecom Strategies
 - Implementing Telephony
 - Implementing LAN Services
 - Implementing WAN Services
 - Network Management and Security
- **Current trends and future of telecom**
 - Telecom Trends
 - Introduction of various concepts of 2G, 3G and 4G