

Fiber Optic / Telecom / RF Technology Training



Duration	25 Hrs (Weekend- Full day Class)
Course Type	Weekend
Timing	10 to 5 Pm
We Provide	Course Materials Worldwide Online Verification Certificate

<p>SESSION - 1</p>	<p>Telecommunication</p> <ul style="list-style-type: none"> <input type="checkbox"/> What is Telecommunication <input type="checkbox"/> Telecommunication Timelines <input type="checkbox"/> Some History about Telecom <input type="checkbox"/> Evolution in a Nutshell <input type="checkbox"/> Types of Communication <input type="checkbox"/> Telecommunication <input type="checkbox"/> Communication System <input type="checkbox"/> Indian Telecom Landscape <ul style="list-style-type: none"> <input type="checkbox"/> Telecom Evolution in India <input type="checkbox"/> Important Dates/Events <input type="checkbox"/> Indian Regulatory Structure <input type="checkbox"/> The Era of Privatization <input type="checkbox"/> National Telecom Policy
<p>SESSION - 2</p>	<p>Types of Medium in Telecommunication</p> <ul style="list-style-type: none"> <input type="checkbox"/> Types of Medium <input type="checkbox"/> Common Network Cable Types <input type="checkbox"/> Introduction – Copper / Coaxial cable <ul style="list-style-type: none"> <input type="checkbox"/> Coaxial Cable <input type="checkbox"/> Coaxial Layers <input type="checkbox"/> Coaxial Advantages <input type="checkbox"/> Coaxial Disadvantages <input type="checkbox"/> Twisted Pair Wires <input type="checkbox"/> Types of Twisted Pair <input type="checkbox"/> UTP categories <input type="checkbox"/> UTP characteristics <input type="checkbox"/> Twisted Pair Advantages <input type="checkbox"/> Twisted Pair Disadvantages <input type="checkbox"/> UTP Connecters <input type="checkbox"/> Submarine Fiber Optics/Cables
<p>SESSION - 3</p>	<p>Introduction – Fiber</p> <ul style="list-style-type: none"> <input type="checkbox"/> Introduction <input type="checkbox"/> History of Fiber Optics <input type="checkbox"/> About Optical Fiber <input type="checkbox"/> Why Fiber Optics? <input type="checkbox"/> Source and transmitters <input type="checkbox"/> Optical Fiber & Communications System <input type="checkbox"/> Fiber-Optic Cable Construction <input type="checkbox"/> Fiber Technology <input type="checkbox"/> How Fiber Works? <input type="checkbox"/> Fiber Optic Data Links <input type="checkbox"/> Light Used In Fiber Optics <input type="checkbox"/> Multiplexing (MUX)

	<input type="checkbox"/> Fiber-Optic Splices and Connectors <input type="checkbox"/> The loss/bending loss of fiber optic <input type="checkbox"/> The advantages of fiber optic over wire cable <input type="checkbox"/> Disadvantage of fiber optic over copper wire cable <input type="checkbox"/> Global Undersea Fiber systems
SESSION – 4	Microwave, Infrared & Bluetooth Communication <input type="checkbox"/> Microwaves <ul style="list-style-type: none"> <input type="checkbox"/> Microwave Propagation Modes <input type="checkbox"/> Microwave Signal Attenuation <input type="checkbox"/> Microwaves usages <input type="checkbox"/> Advantages / Disadvantages of Microwaves <input type="checkbox"/> Infrared & Bluetooth communication <ul style="list-style-type: none"> <input type="checkbox"/> Infrared waves <input type="checkbox"/> Infrared configuration <input type="checkbox"/> Infrared devices
SESSION – 5	Radio Frequency (RF): <input type="checkbox"/> What is Radio Frequency? <input type="checkbox"/> Electromagnetic Spectrum <input type="checkbox"/> Radio Frequency Bands <input type="checkbox"/> Radio Frequency Bands-Examples
SESSION – 6	Wire Line Phone Concepts: <input type="checkbox"/> Local Telephone <input type="checkbox"/> POTS (Plain Old Telephone Services) <input type="checkbox"/> National Telephone Network <input type="checkbox"/> International Telephone Network <input type="checkbox"/> Accessing Data on Wire line

<p>SESSION – 7</p>	<p>ISDN Network / Types</p> <ul style="list-style-type: none"> <input type="checkbox"/> ISDN Concepts <input type="checkbox"/> ISDN Defined <input type="checkbox"/> ISDN Network <input type="checkbox"/> Basic Rate Interface (BRI) <ul style="list-style-type: none"> <input type="checkbox"/> Channels in BRI Service <input type="checkbox"/> Why we need BRI <input type="checkbox"/> Purpose of BRI <input type="checkbox"/> Number of Channels <input type="checkbox"/> Benefits of BRI <input type="checkbox"/> Primary Rate Interface (PRI) <ul style="list-style-type: none"> <input type="checkbox"/> Why we need PRI <input type="checkbox"/> Purpose of PRI <input type="checkbox"/> Number of Channels <input type="checkbox"/> Benefits of PRI <input type="checkbox"/> Electronic Private Automated Branch Exchange (EPABX) <ul style="list-style-type: none"> <input type="checkbox"/> Why we need EPABX <input type="checkbox"/> Types of EPABX <input type="checkbox"/> How it Works? <input type="checkbox"/> What is Consol / Extensions
<p>SESSION – 8</p>	<p>Wireless Concepts:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Evolution of Mobile Communication <input type="checkbox"/> Access Mechanism <input type="checkbox"/> How Mobile Communication works <input type="checkbox"/> Call maturing process <input type="checkbox"/> BTS/MSC/POI <input type="checkbox"/> Types of Mobile Communications <input type="checkbox"/> GSM Basics <input type="checkbox"/> CDMA Basics <input type="checkbox"/> Numbering Plan
<p>SESSION – 9</p>	<p>Leased Lines:</p> <ul style="list-style-type: none"> <input type="checkbox"/> What is Leased Line? <input type="checkbox"/> Types of Leased Lines <ul style="list-style-type: none"> <input type="checkbox"/> Point to Point Leased Line (P2P) <input type="checkbox"/> National Private Leased Circuit (NLC) <input type="checkbox"/> Multi Protocol Label Switching (MPLS) <input type="checkbox"/> International Private Leased Circuit (IPLC) <input type="checkbox"/> Global Multi Protocol Label Switching (GMPLS) <input type="checkbox"/> Internet Broadband (BB)

SESSION – 10	Network & Network Topology <ul style="list-style-type: none"> <input type="checkbox"/> What is Network? <input type="checkbox"/> Why we need Network? <input type="checkbox"/> Types of Network Topology <ul style="list-style-type: none"> <input type="checkbox"/> Point-to-point <input type="checkbox"/> Bus Network Topology <input type="checkbox"/> Star Network Topology <input type="checkbox"/> Ring Network Topology
SESSION – 11	Network Equipments <ul style="list-style-type: none"> <input type="checkbox"/> Switches <input type="checkbox"/> Routers <input type="checkbox"/> Firewall <input type="checkbox"/> L3 Switches
SESSION – 12	Point to Point Leased Line (P2P) <ul style="list-style-type: none"> <input type="checkbox"/> What is P2P? <input type="checkbox"/> Why/Where we need BRI <input type="checkbox"/> How it works? <input type="checkbox"/> Advantages of P2P <input type="checkbox"/> Disadvantages of P2P <input type="checkbox"/> P2P Topology
SESSION – 13	National Private Leased Circuit (NLC) <ul style="list-style-type: none"> <input type="checkbox"/> What is NLC/NLD? <input type="checkbox"/> Why/Where we need NLC/NLD <input type="checkbox"/> How it works? <input type="checkbox"/> Advantages of NLC/NLD
SESSION – 14	Multi Protocol Label Switching (MPLS) <ul style="list-style-type: none"> <input type="checkbox"/> What is MPLS? <input type="checkbox"/> Why/Where we need MPLS? <input type="checkbox"/> How it works? <input type="checkbox"/> Types of MPLC connectivity <input type="checkbox"/> Advantages of MPLS
SESSION – 15	International Private Leased Circuit (IPLC) <ul style="list-style-type: none"> <input type="checkbox"/> What is IPLC? <input type="checkbox"/> Why/Where we need IPLC? <input type="checkbox"/> How it works? <input type="checkbox"/> Advantages of IPLC <input type="checkbox"/> IPLC Network Diagram
SESSION – 16	Global Multi Protocol Label Switching (GMPLS) <ul style="list-style-type: none"> <input type="checkbox"/> What is GMPLS? <input type="checkbox"/> Why/Where we need GMPLS? <input type="checkbox"/> How it works? <input type="checkbox"/> Advantages of GMPLS

SESSION – 17	Internet Broadband (BB) <ul style="list-style-type: none"> <input type="checkbox"/> What is Broadband? <input type="checkbox"/> How it works? <input type="checkbox"/> Benefits of Broadband
SESSION – 18	Internet Leased Line (ILL) <ul style="list-style-type: none"> <input type="checkbox"/> What is Internet Leased Line? <input type="checkbox"/> How it works? <input type="checkbox"/> Internet Leased Line Topology <input type="checkbox"/> POP/Gateway <input type="checkbox"/> Internet Protocol (IP) <ul style="list-style-type: none"> <input type="checkbox"/> Static / Public IP <input type="checkbox"/> Dynamic IP <input type="checkbox"/> Advantages of Internet Leased Line
SESSION – 19	Audio Conference <ul style="list-style-type: none"> <input type="checkbox"/> What is Audio Conference? <input type="checkbox"/> How it works? <input type="checkbox"/> Advantages of Audio Conference Bridge <input type="checkbox"/> Disadvantages of Audio Conference Bridge
SESSION – 20	Video Conference <ul style="list-style-type: none"> <input type="checkbox"/> What is Video Conference? <input type="checkbox"/> How it works? <input type="checkbox"/> Advantages of Video Conference <input type="checkbox"/> Disadvantages of Conference <input type="checkbox"/> Video Conference Setup <input type="checkbox"/> Video Conference Bridge <ul style="list-style-type: none"> <input type="checkbox"/> What is Video Conference Bridge? <input type="checkbox"/> How it works?
SESSION – 21	Toll Free Numbers <ul style="list-style-type: none"> <input type="checkbox"/> What is Toll Free Numbers? <input type="checkbox"/> How it works? <input type="checkbox"/> Benefits of Toll Free Numbers
SESSION – 22	Data Center <ul style="list-style-type: none"> <input type="checkbox"/> What is Data Center? <input type="checkbox"/> How it works? <input type="checkbox"/> Types of Data Centers <input type="checkbox"/> Availability & Uptime <input type="checkbox"/> Advantages of Data Centers <input type="checkbox"/> Disadvantages of Data Centers <input type="checkbox"/> Co-Location <ul style="list-style-type: none"> <input type="checkbox"/> Server alone <input type="checkbox"/> Rack with Server <input type="checkbox"/> Application Only

SESSION – 23	Cloud Computing <ul style="list-style-type: none"> <input type="checkbox"/> What is Cloud Computing? <input type="checkbox"/> Cloud Computing Options <input type="checkbox"/> Cloud Computing Characteristics <input type="checkbox"/> Cloud Service Models <input type="checkbox"/> Cloud Computing Service Layers <input type="checkbox"/> Cloud Computing – Simple Definition <input type="checkbox"/> Saas, PaaS, IaaS <input type="checkbox"/> Advantages of Cloud Computing
SESSION – 24,25	VSAT <ul style="list-style-type: none"> <input type="checkbox"/> What is VSAT? <input type="checkbox"/> How it works? <input type="checkbox"/> Advantages of VSAT <input type="checkbox"/> Disadvantages of VSAT

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