

SN	Topic	Reference Contents
1	Overview of Telecom and Telecom Infrastructure	History of Telecom Telecom Services - Voice, Data, Multimedia, VoIP, VOD, IPTV and OTT Overview of Telephone Exchange SMPS PP and Battery set up Engine Alternator Earthing
2	Optical Fiber Communication	Total Internal Reflection, Light sources and Detectors OF Construction and OF cable Construction Types of OF cables OF Connectors OF Splicing Primary Multiplexing (PCM), PDH, SDH, NGSDH, DWDM, OTN
3	Overview of Data Networking	Packet Switching OSI, TCP / IP concept LAN and WAN Concept Hub, Switch, Routers and Gateways IPv4 and IPv6 Switching and Routing MPLS Core Network
4	Broadband and FTTH	BB Definition and DSL technology BB and Multiplay Architecture FTTH Architecture, Features and Advantages OLT, ONT and Splitters Wi-Fi
5	Mobile Communication	Wireless Communication Cellular Concepts 2G - GSM, FDMA/TDMA, GPRS and EDGE CDMA 3G - 3GPP, UMTS and WCDMA 4G - LTE 5G