

Introduction

Historical background
Scope of telecommunication
Importance of Telecom
RF Signal Propagation
Antenna Concepts
Telecom infra

GSM (2G) technology

GSM Band
GSM Architecture
BSS configuration
NSS identity
GSM channel
Call routing (mobile to mobile)
Location updates
Handover (Hand off)
Frequency planning

GPRS (2.5G) technology

Introduction of GPRS
GPRS fundamental
Telecom Switching
GPRS Architecture
Comparisons b/w GSM & GPRS

UMTS (3G) technology

Introduction of 3G
Features of 3G
3G N/W architecture
Spreading, Channelization
Radio resource management

LTE (4G) technology

The need for LTE Dynamics
LTE Overview
Comparison b/w 2G, 3G & 4G
LTE Network Architecture
Advantages of LTE

Equipments & software

GPS (global positioning system)
Google Map
Magnetic Compass
Path loss finder
Team viewer
MAPINFO
TEMS

Practicals

Site visit to see Antenna Type
Practical of RF/EMF/ LOS Survey
Path loss find via software
Check MW antenna orientation
Network planning via Map Info
Networks Testing via TEMS
Live projects (reliance 4G)

Latest wireless technologies

Internet protocol (IPV6)
Cloud computing/WI-FI

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