

## 2G & 3G Technology (Connect)

This Workshop is specially designed by our industry expert to give cutting edge knowledge on 2G and 3G technology .The terms "2G" and "3G" refer to the two primary forms of cellular technology used throughout the world during the early 21st century. 2G is the second generation of mobile networks, while 3G is the third. There are a number of differences between the technologies, most notably the features available to users of mobile devices.

### Topics to be covered in Workshop

#### Telecom fundamental and history

Evolution of telecom

Indian telecom history

Telecom bodies

Reform process

Impact of reform process

Basic wireless concept and many more

#### 2G Technology

Evolution of 2G

Architecture of core network - detailed

Channel concept

GSM frequency band - range ARFCN (UL - DL)

Traffic cases

Identities

Handovers (softer, soft, hard)

Antenna tilting

Signaling channels (BCCH, CCH, DCH)

Traffic channel

Common topics

- o RF survey

- o Microwave survey

- o Drive test



- o Components and connections
- o Mode of drive test
- o TEMS basic start up
- o Windows open during drive test
- o Various parameters and there ranges
- o How to use GPS( lat & log)
- o TEMS on mobile
- o How to use MAP INFO professional
- o How to load files in TEMS ( MIPT files)
- o How to export log file

### **3G Technology**

Evolution of 3G

Architecture of UMTS network

3G licenses in India

Frequency band allotments

Principle of W CDMA (20 slides)

UMTS handovers (all types)

UMTS power control

### **DRIVE TEST of 3G**

Components and connections

Mode of drive test

TEMS basic start up

Windows open during drive test

Various parameters and there ranges

How to use GPS (lat & log)

TEMS on mobile

How to use MAP INFO professional

How to load files in TEMS (MIPT files)

How to export log file



**Videos**

BTS installation

3G drive test

**Duration:** The duration of this workshop will be two consecutive days, with eight hour session each day in a total of sixteen hours properly divided into theory and hands on sessions.

**Eligibility:** It's a basic level workshop so there are no prerequisites. Anyone interested, can join this workshop.

**Fee:** Rs. 1000/-(inclusive of all Taxes) per participant.

