

# 5G Basic Procedures

## COURSE OUTLINE



## Course Details

**Name: 5G Basic Procedures**

### **Module 1: Introduction 5G Architecture**

Topics discussed in this module are listed below:

- 3GPP 5G Architecture: Interface and Protocols
- 5G Core Network Architecture
- Network Virtualization
- Cloud RAN
- Network Slicing
- Multiple-Access Edge Computing (MEC)
- Interworking with 4G

### **Module 2: 5G Radio Architecture and Protocols**

Topics discussed in this module are listed below:

- 5G Radio Interface Layers
- Multi-RAT dual Connectivity
- gNB-CU and gNB-DU

### **Module 3: Initial Access**

Topics discussed in this module are listed below:

- DL synchronization
- System Information Acquisition
- Random Access Procedure
- Connection Establishment

### **Module 3: Registration**

Topics discussed in this module are listed below:

- QoS in 5G
- Network Slicing Overview
- Registration Overview
- Session Establishment

#### **Module 4: Data Transfer**

Topics discussed in this module are listed below:

- Scheduling
- Data transmission
- H-ARQ

#### **Module 5: Mobility Procedures**

Topics discussed in this module are listed below:

- Cell reselection
- Paging
- Handover
- LTE mobility with dual connectivity