

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