

# Concepts of Mobile Communications



(10th January 2022 - 28th January 2022)

National Telecommunications Institute for  
Policy Research Innovation and Training (NTIPRIT)

# Content of the Training

1. Evolution of Mobile Technology
2. Fundamental of Mobile Communication
3. Radio Network Concepts-Cellular Principle
4. Functioning of Standards Development Organizations
5. TDMA/FDMA/CDMA/OFDM
6. GSM Architecture
7. GSM Cell Coverage / Capacity
8. GPRS and Edge
9. GSM Call Processing
10. IN, SMSC, Billing and Customer Care System
11. HLR/VLR/SMSC Dump and Analysis/Audit
12. UMTS Core Architecture
13. UMTS Air Interfaces (WCDMA/HSPA/HSPA+)
14. IP Multimedia Services (IMS)
15. UMTS Call Flow
16. DOT Engagement with ITU
17. LTE / LTE Advanced Air Interface
18. LTE/ LTE Advanced Identities
19. LTE/ LTE Advanced Session Setup and call flow
20. LTE/ LTE Advanced Session Setup and call flow
21. 5G Test Bed
22. LTE – Quality of Service
23. LTE Protocols, channels, reference signals, RRM
24. VoLTE Call Procedure and WiFi Offloading