5G NR Channels & Parameters

2 Hr. 33 Min.

LEARNING OBJECTIVE:

Upon completing the course, the participant will be able to:

➢ Frame Structure & in-depth understanding of SCS numerology, Slot, Mini Slot
➢ Channel Structure in Uplink and Downlink
➢ What is SSB Block and the Mapping on resource grid
➢ Understand the functionality and mapping of each Downlink and Uplink channel

COURSE OBJECTIVE:

In this course we will discuss about 5G introduction and Air interface wherein we will cover :

➢ The 5G Reference point and Service based architecture
➢ Consumer/ producer relationship between Network Functions
➢ Frame Structure & in-depth understanding of SCS numerology, Slot, Mini Slot
➢ Channel Structure in Uplink and Downlink
➢ What is SSB Block and the Mapping on resource grid
➢ Understand the functionality and mapping of each Downlink and Uplink channel and Reference signals

WHO SHOULD ATTEND:

This course is designed to provide a in-depth knowledge about the 5G procedures so telecommunications professionals, network professionals and others who plan to work and gain knowledge in 5G wireless network can come on board.

TARGET AUDIENCE:

RF Engineers, 5G Planners and Optimizers

INSTRUCTIONAL METHODS:

Lectures in Classroom, Virtual Classroom trainings, discussion, Questions & Answers. All participants will also receive comprehensive course materials.

COURSE OUTLINE:

1. 5G Basics

1.1 5G Stand-Alone Vs Non Stand-Alone

1.2 5G Deployment Options

1.3 5G System Architecture

1.4 5G Service Based Architecture

1.5 5G NR Frame Structure

1.6 5G Multiple Access and Physical Resources

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2. 5G Channel Configuration Parameters

2.1 Overview Logical, Transport and Physical Channels

2.2 Downlink Channels

2.3 Uplink Channels

2.4 Reference Signals

2.5 Channel Processing

2.6 Cell Search

2.7 Random Access Procedure

Evaluation and feedback of the participants

Maximum number of participants:	15

Duration:	2 Hr. 33 Min.