



## 5G Air interface

### Description

This technical training program delves into the intricacies of the 5G air interface and spectrum management. Participants will gain a deep understanding of essential components, protocols, and resource allocation within 5G networks. We will discuss in more details the channels, CSI-RS, SSI, BWP, SRS and more ..

By completing this training, individuals will be well-equipped to excel in the dynamic field of wireless communication technology.

### Content of the Training:

01 5G network spectrum

02 global raster&channel raster

03 synchronization raster

04 Uu Interface Protocols Overview

05 RRC layer

06 SDAP layer

07 PDCP layer

08 RLC layer

09 MAC layer

10 PHY layer (1)

11 PHY layer (2)

12 NR Air Interface Resource Overview

13 Numerology

14 Frame structure

15 NR Slot Format

16 Frequency Domain Resources

17 BWP Category and Conversion Mechanism

18 PHY Channels&Signals Introduction

19 SSB (1)

20 SSB (2)

21 SSB (3)

22 PDCCH (1)

23 PDCCH (2)

24 PDCCH (3)

25 PDSCH (1)

26 PDSCH (2)

27 PDSCH DMRS

28 CSI-RS (1)

29 CSI-RS (2)

30 PRACH (1)

31 PRACH (2)

32 PUCCH(1)

33 PUCCH (2)

34 PUSCH

35 SRS (1)

36 SRS (2)