

## 5G NG-RAN Architecture in Half a Day

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### CONTENTS

This course provides a quick overview of the Next-Generation Radio Access Network (NG-RAN) which is part of the 3GPP 5G System.

The course explains why and how the NG-RAN is different from previous generations' radio access networks. It describes the role and functionality of the gNB and various implementation options. Some important NG-RAN concepts like Dual Connectivity and Network Slicing are also briefly explained.

### PREREQUISITES

Basic system-level knowledge of LTE/4G and 5G recommended but not required. Also non-technical people can take the course in order to get an orientation about NG-RAN.

Note: This course is not delivered with the FoldOut methodology.

### What is the NG-RAN

- Non-Stand Alone (NSA) vs Stand-Alone (SA) deployments
- Why New Radio and NG-RAN?
- What is new about New Radio?

### NG-RAN Architecture

- QoS Handling
- Types of Base Stations
- Radio Network Protocols
- C-RAN

### Some Important NG-RAN Terms and Concepts

- Dual Connectivity
- Network Slicing