5G NG-RAN in an Hour

CONTENTS

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

The course outlines why and how the NG-RAN is different from previous generations' radio access networks. It describes various implementation options e.g. C-RAN and Open RAN and outlines key NG-RAN concepts like Dual Connectivity and Network Slicing.

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 introduction to NG-RAN.

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

Introduction to NG-RAN

- Non-Standalone vs Standalone NR
- Why New Radio and NG-RAN?
- QoS Handling in NG-RAN

NG-RAN Architecture

- C-RAN and Open RAN
- Radio Network Protocols
- Dual Connectivity
- Network Slicing
- IAB - Integrated Access and Backhaul