TK419: LTE-A Features

Duration

3.0 Days

Course Content

1. LTE (3GPP R8)

- 1.1. LTE Overview (3GPP rel-8)
- 1.2. LTE requirements
- 1.3. LTE Downlink Transmission Scheme
- 1.4. LTE Uplink Transmission Scheme
- 1.5. LTE MIMO Concepts
- 1.6. LTE Protocol stack
- 1.7. LTE HSPA Comparison

2. LTE enhancement (3GPP R9)

- 2.1. Introduction
- 2.2. evolved MBMS
- 2.3. Positioning methods in LTE
- 2.4. LTE MIMO: dual-layer beamforming
- 2.5. Public Warning System (PWS)
- 2.6. RF requirements for multi-carrier and multi-RAT base station
- 2.7. Home eNodeB specification
- 2.8. Self-Organizing Networks

3. LTE-Advanced (3GPP R10)

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3.1. introduction

3.2. LTE-Advanced requirements

3.3. UE categories for LTE-Advanced

3.4. Carrier aggregation

3.5. Enhanced multiple antenna technologies

3.6. Enhanced uplink transmission scheme

3.7. Enhanced Inter-Cell Interference Coordination (eICIC)

3.8. Relaying

3.9. Coordinated Multi-Point Operation for LTE (CoMP)

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