



LTE EPS Technology

4.11.2010, Helsinki

Aika	4.11.2010
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Kouluttaja	Jussi Laakso, Upknowledge Oy
Kieli	Opetuskieli on suomi, kurssimateriaali on englanninkielinen.

OHJELMA

Torstai 4.11.

08.30 – 09.00 Aamukahvi

- 09.00 –
- LTE - INTRODUCTION**
 - Limitations of 3G+ cellular network technology
 - 4G technology and market drivers
 - 3GPP Long Term Evolution (LTE) concepts
 - Operator requirements for LTE technology
 - LTE/SAE standardisation principles
 - LTE versus other 4G mobile access technologies (Mobile WiMAX, UMB)
- LTE AIR INTERFACE**
 - LTE frequency bands
 - OFDM technology principles in LTE
 - Protocols in the LTE air interface protocol stack
 - User data transmission principles on the LTE air interface
 - LTE radio channels
 - LTE radio resource management principles
 - Advanced antenna system principles in LTE
 - MISO, SIMO, MIMO and beamforming

12.00 – 12.45 Lounas

- 12.45 –
- LTE CORE NETWORK**
 - 3GPP System Architecture Evolution (SAE) concepts
 - Enhanced Packet Core (EPC) structure
 - LTE end-to-end data transfer principles
 - LTE security features
 - Fixed transmission requirements for LTE

14.30 – 14.45 Kahvi

- 14.45 –
- LTE OPERATION**
 - LTE roaming principles
 - LTE handover mechanisms
 - Interoperability mechanisms with other 3GPP technologies
 - Interoperability principles with other non-3GPP technologies

16.00 Kurssipäivä päättyy