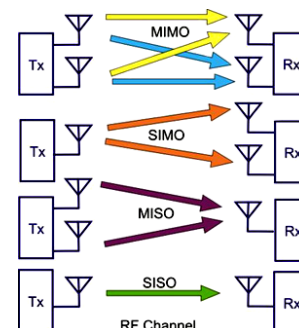
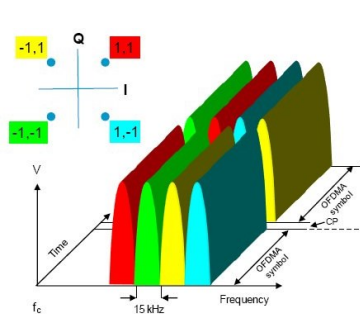
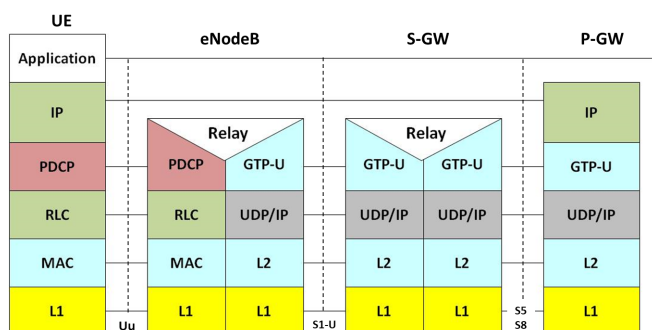
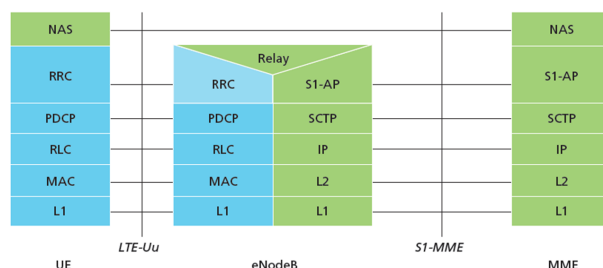
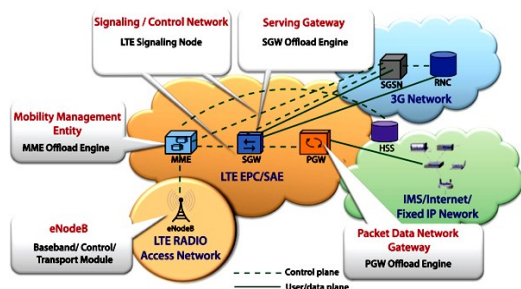


Long Term Evolution (LTE)

Job Ready Courses

A rapid increase of mobile data usage and emergence of new mobile phone applications such as MMOG (Multimedia Online Gaming), mobile TV, Web 2.0, streaming contents have motivated the 3GPP to work on the Long-Term Evolution (LTE) as a Fourth-generation (4G) mobile technology standard. The main benefit of LTE is that it can deliver services at fixed line quality using IP technologies. Organizations like NEMs, Telecom / Internet service providers are looking for LTE expertise to help plan and execute tasks in Engineering (Development and Testing), Deployment and Field testing. Given the complexity of the LTE as a technology, such technical expertise is essential for career to grow.

This course is designed to provide complete end-to-end knowledge involving basis on wireless communication, cellular concepts to Radio access network (E-UTRAN), Core network (EPC) covering the network elements, interfaces and the protocols.



Course Contents

- **LTE-Introduction**
 - Evolution of LTE
 - Long Term Evolution standardization in 3GPP
 - Requirements and Targets for the Long-Term Evolution
 - Technologies for the Long-Term Evolution
- **LTE-Network Architecture and Protocols**
 - Network Architecture
 - Control Plane Protocols
 - User Plane Protocols
- **LTE-Physical Layer for Downlink**
 - Orthogonal Frequency Division Multiple Access (OFDMA)
 - Introduction to Downlink Physical Layer Design
 - Synchronization and Cell Search
 - Reference Signals and Channel Estimation
 - Downlink Physical Data and Control Channels
 - Link Adaptation and Channel Coding
 - Multiple Antenna Techniques
 - Multi-User Scheduling and Interference Coordination
 - Broadcast Operation
- **LTE-Physical Layer for Uplink**
 - Uplink Physical Layer Design
 - Uplink Reference Signals
 - Uplink Physical Channel Structure
 - Random Access
 - Uplink Transmission Procedures

LTE-Deployment

- User Equipment Positioning
- The Radio Propagation Environment
- Radio Frequency Aspects
- Radio Resource Management
- Paired and Unpaired Spectrum
- Picocells, Femtocells and Home eNodeBs
- Self-Optimizing Networks
- LTE System Performance

LTE-Advanced

- Introduction to LTE-Advanced
- Carrier Aggregation
- Multiple Antenna Techniques for LTE-Advanced
- Relaying
- Additional Features of LTE Release 10
- LTE-Advanced Performance and Future Developments

Training Duration

- 40 hrs.

For more details :

- Visit : <https://www.vigven.com/browse/training-programs>
- Or post a message to : training@vigven.com