



## **COURSE: LTE RADIO PLANNING AND OPTIMIZATION**

**DURATION: 5 DAYS**

### **MODULE 1**

**LTE Architecture and the Physical Layer**

**LTE Network Architecture**

**Duplexing, Coding, and Modulation in LTE**

**LTE Physical Channels**

**Coding, Modulation, and Multiplexing**

### **MODULE 2**

**Cell Planning**

**Coverage**

**Cell IDs**

**Cell Types**

### **MODULE 3**

**Multiple Input Multiple Output Systems (MIMO)**

**Diversity**

**Antenna Arrays**

**Propagation Modeling**

**Propagation Environments**

## **MODULE 4**

**Empirical/Statistical Path Loss Models**

**Deterministic Path Loss Models**

**Link Budget**

**CW Testing**

**Model Tuning**

## **MODULE 5**

***Evolved Cellular Network Planning and Optimization***

**Network Performance Parameters**

**Performance Parameters**

**Traffic**

**Measurement Types**

**Postdeployment Optimization and Open Issues**

**Postdeployment Optimization**

**Open Issues**