TK211: GSM Air interface

Duration

4.0 Days

Course Content

1. Structure of GSM Air interface

- 1.1 FDMA/TDMA scheme
- 1.2 Frame structure
- 1.3 Synchronization between uplink and downlink

2. Physical and logical channels

- 2.1 Logical channels
  - 2.1.1 Broadcast channels
  - 2.1.2 Common control channels
  - 2.1.3 Traffic channels
  - 2.1.4 Dedicated channels
- 2.2 Physical channels
- 2.3 Mapping of logical channels into physical channels
- 2.4 Frame structure of the logical control channels
- 2.5 Use of common control channel

3. Fundamentals of Wireless channels and error control

- 3.1 Propagation phenomena
- 3.2 Path loss
- 3.3 Multipath fading
- 3.4 Noise and interference
- 3.5 Channel errors