

GSM: Network Architecture, Operation and Design

Description:

This course presents technical concepts involved in GSM. It is designed for individuals having a bachelor of science in Electrical Engineering, Mathematics, Physics or background in communication engineering.

Objectives:

- To be able to identify the components of a GSM network and the protocols that allow them to communicate with each other
- Evaluate and compare solutions to specific problems within the rules set forth by GSM
- To understand the GSM structures and articulate their interactions
- To be able to identify good design and optimization strategies as well as performance problems and solution approaches.

Course content:

- GSM Network Architecture and System Overview
- GSM TDMA Structures on the RF Carrier
- The End-to-End Digital Path
- GSM speech Coding
- GSM Error Control Coding
- Layer 2 and Layer 3 Message Structures
- Evolutionary Path of GSM.

Delivery type:

The training is scheduled for 4-5 days depending on audience background and options and is instructor led.

One day is divided in two modules of 3 hours each.