



First Select

Indoor Cell Planning

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| 27 Apr -01 May 2025 | Kuala Lumpur | 3300 | Register Now |

Overview:

The Global System for Mobile communications (GSM) is the most widely adopted technology for second-generation (2G) digital mobile telephony in the world. Almost one in two people on the planet has a GSM-enabled mobile phone and GSM accounts for more than 80% of the global mobile phone market. The General Packet Radio Service (GPRS) is a supplemental feature for GSM networks that enables packetized user data to be carried efficiently across an IP-based core network. GPRS is an important part of most GSM networks worldwide and it is a stepping-stone to the provision of more advanced multimedia-based services. The courses in this category cover all aspects of GSM and GPRS operation from the radio air interface through to the core network. There are courses that would suit engineers who need to add to their existing knowledge on the subject and those who are completely new to these technologies. This category also covers planning and optimization of GSM/GPRS networks enabling engineers to understand the technology, techniques and software tools appropriate to these tasks.

Objectives:

The planning process Initial planning and site survey Traffic dimensioning Dimensioning the control channels Indoor propagation considerations Calculating indoor coverage Equipment for measuring indoor coverage Sources of RF for indoor coverage Methods for providing indoor coverage Copper DAS Fibre DAS Indoor antennas Leaky feeders Link budget calculations Integrating indoor cells Handover triggers and parameters

WHO SHOULD ATTEND?

This course is focused on planning indoor coverage solutions for GSM and UMTS/eHSPA networks. It is targeted at operators eager to improve network performance by means of adding effective indoor sites in hotspots and gold corporate customers.

Course Outline:

GSM &GPRS (2G& 3G):

- GSM @ GPRS Architecture
- Channeling and Air Interface
- Mobility Management

Coverage Planning:

- Cellular shape
- Cellular fundamentals
- Propagation path loss models
- Link budget Analysis(2G and 3G)

Capacity planning:

- Frequency planning
- Frequency reuse
- Interference Analysis
- Traffic planning

WORKSHOP STYLE:

A mixture of short presentations, interactive discussion, individual exercises and group work. The emphasis throughout is on a practical approach using case material and examples.



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