

MICROWAVE System Overview

Description:

This course presents technical concepts involved in microwave transmission. It is designed for individuals having at least one year experience in the field of communication engineering, fixed or wireless telephony or related fields.

Objectives:

- To understand the effects of various obstacles in the transmitter-receiver path
- Learn how even those structures that are not in the direct path but merely close to it can have effect on the signal
- To evaluate fixed links, determine the correct positions for the transmitting and receiving antennas
- Identify the mitigating mechanisms for those occasions when the antennas can not be optimally located

Course content:

- Digital Transmission Systems
- Digital Power Spectra and Bandwidths
- Digital Modulation
- Line of Sight Transmission
- Effects of Climate, Fading and Fading on Digital Radio
- Antennas and Diversity
- Radio Frequency Interference (RFI) coordination
- Microwave Implementation

Delivery type:

The training is scheduled for 2-3 days depending on audience background and options and is instructor led.

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