



## Course Content Transmission

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<b>Name of the course:</b>	Digital Microwave Radio
<b>Duration:</b>	5 days
<b>Venue:</b>	Welisara

### Course content:

- ✚ Basic configuration of PCM systems
- ✚ Debriefing of PDH & SDH
- ✚ Microwave Radio block diagram
- ✚ Basic functions of,
  - ❖ Transmit and Receive DPU (BBU)
  - ❖ Modulator and De-modulator
  - ❖ Up converter/Down converter
  - ❖ Line equalization, B/U conversion and Multiplexing
- ✚ Need for Scrambling and type of Scramblers
- ✚ Spectrum of various Mark Ratio of Digital signal
- ✚ Spectral bandwidth of the digital base band
- ✚ Limitation of the Bandwidth by Nyquist Filtering
- ✚ Amplitude response for Cosine roll-off filters and Eye diagrams.
- ✚ Multiple level modulation procedures
- ✚ MOD and De-mod functional block diagrams
- ✚ Coherent detection and Differential PSK.
- ✚ Transmitter, Receiver and Equalizer functions
- ✚ Need for Diversity techniques and equipment arrangements
- ✚ Microwave Components at the branching network
- ✚ Wave Guide theory
- ✚ Practical on Digital Microwave Radio equipments