

Course Content

Transmission

Issue No. : 001
Date of Issue : 01.08.2013

Revision No : Nil
Date of Revision : Nil
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Name of the course:	Digital Transmission II
Duration:	5 days
Venue:	Welisara

Course content:

- Overview of Transmission Systems
- - Coding for Error Control
 - Coding Applications
 - Influence of Coding on Bandwidth & Power
 - Coding Gain
 - Categories of FEC Codes
 - Concept of hamming weight and hamming distance
 - Convolution Coding
- Equalization of Digital Transmission
 - Distorted waveform and cancellation of ISI
 - Mechanism of Transversal Filter/Equalizer



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Overview of M-ary modulation

- Basics of Digital Modulation
- M-ary Modulation Techniques
- Differential Coding/De-coding (Sum Logic and Dif. Logic)
- Constellation and Formation of EYE pattern
- Comparison of the S/N for different type of modulation techniques
- - Constellation "Closure"
 - "Lock" angle error
 - "Quad' angle error
 - "rms" Non Linear Distortion
 - "am-am" Non Linear Distortion
 - Relating Constellation Measurements to C/N
- Causes of Digital Radio Impairments
- EYEs and Constellations
- Practical on MUX and DMR equipments