

Introduction to Waveforms

Course Syllabus Overview

Duration – 1 day

01. Introduction to Waveforms

- Types of modulation
- Quality of Service
- In-phase / Quadrature Modulation
- Multiple coding levels

02. Amplitude Modulation Techniques

- Amplitude modulation (AM)
- Amplitude Shift Keying (ASK)
- Pulse Modulation

03. Frequency Modulation Techniques

- Frequency Modulation (FM)
- Frequency Shift Keying (FSK)

04. Phase Modulation Techniques

- Phase Shift Keying (PSK)
- Differential Phase Shift Keying (DPSK)
- Quadrature Amplitude Modulation (QAM)
- Spectral efficiency

05. Wideband Modulation

- Wideband modulation
- Frequency hopping spread spectrum
- Direct sequence spread spectrum
- Chirp spread spectrum
- Time hopping spread spectrum
- Orthogonal Frequency Division Multiplexing

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