

Waveforms

Course Syllabus Overview

Duration – 3 days (Estimate)

01. Fundamentals

- Definition
- Examples

02. Fourier Analysis

- Applications in Signal Processing
- Fourier Transform
- Fourier Series
- Discrete-Time Fourier Transform (DTFT)
- Discrete Fourier Transform (DFT)
- Summary
- Symmetry Properties
- Fourier Transforms on Arbitrary Locally Compact Abelian Topological Groups
- Time-Frequency Transforms

03. Amplitude Modulation

- Principles
- Modulation Index
- Sidebands
- Power
- Single-Sideband

04. Frequency Modulation

- Principles
- Sidebands
- Modulation Index
- Noise Suppression

05. Digital Techniques

- Principles
- Parallel and Serial Transmission
- Data Conversion
- Pulse Modulation

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