

Course Name: Introduction to Signals and Systems

Topic 2: Fourier Transforms:

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Outline:

- Eigen functions of LTI systems
- Continuous Time Fourier Transform
- Properties of Fourier Transform
 - Linearity
 - Convolution
 - Multiplication
 - Duality
 - Parseval's Theorem
- Application of Fourier Transforms
 - Amplitude Modulation in Communication Systems

Prerequisites:

- LTI Systems, Convolution

Reference:

A.V. Oppenheim and A.S. Willksy, "Signals and Systems", 2nd edition, Prentice Hall India, 1996.

Semester: 3