CT203

Contents:

Classification of signals, Signal models, Classification of systems, Time domain analysis of continuous time systems, impulse response, convolution, characterizing LTI systems, Frequency domain analysis of continuous time signals, Fourier series, Fourier transforms, Frequency response of LTI systems, band limitedness, Ideal filters, practical filters, linear phase filters, Hilbert transform, Laplace transform, discrete time signals and systems, discrete Fourier series, discrete time Fourier transform, DFT, Sampling of band limited signals, Z-transforms, Digital filters (if time permits)

Text Book:

Alan V. Oppenheim and Alan S. Willsky with S. Hamid Nawab, "Signals and Systems " EEE.

Proposed Evaluation Strategy:

Insemester-1: 30%

Insem-2: 30%

Endsemester plus tutorials: 40%