

Approval: OTA in 2nd Convocation Meeting

Course Name : Digital Signal Processing

Course code : EE-305

Credits : 3

Course Outline:

- Introduction to discrete time signals and systems, their properties and representations
- Discrete time signal transforms: Fourier transform and Z-transform, and their properties
- Sampling, Nyquist theorem, processing continuous and discrete signals, multi-rate sampling
- Introduction to filtering of signals, filter structures, and types of filters
- Discrete Fourier transform (DFT), its analysis and properties, its efficient computation, and analysis of signals using DFT