



भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology
Hyderabad

Department of Electrical Engineering IIT Hyderabad

EE 1370 - DIGITAL SIGNAL PROCESSING

JAN - APR. 2019 (1-2 SEGMENTS)

Instructor: K. Sri Rama Murty (ksrm@iith.ac.in)

Course Contents

Review of LTI systems and their properties, Convolution sum, Sampling of continuous-time signals, Discrete-time Fourier transform (DTFT) and its properties, Sampling in frequency domain, Discrete Fourier transform (DFT) and its properties, Z-transform and its properties.

References

1. A. V. Oppenheim, R. Schafer and J. Buck *Discrete-Time signal processing*, PHI.
2. Thomas J. Cavicchi, *Digital Signal Processing*, Wiley India.
3. John G. Proakis and D. G. Manolakis, *Digital Signal Processing: Principles, Algorithms And Applications*, PHI.

Evaluation

- Home Work: 20%
- Surprise Quiz: 40%
- End Exam: 40%