

Course Syllabus

Course Code and Name	EE 26546 – Digital Signal Processing
Credit and contact hours	3 (2, 1, 1) (Lecture, Tutorial, Lab)
Required or Elective	Required
Level / Year	Level (9) / Year (5)
Course Prerequisite	EE 26341 Signal Analysis and Systems
Textbook	S. Mitra, Digital Signal Processing: A Computer-Based Approach, Mc-Graw Hill, 2011.
Course Description	This course covers the following topics: Discrete time signals and systems - z-transform and its application to LTI systems - Discrete-time Fourier transform, discrete Fourier transform, and - Fast Fourier transform - Structures for FIR and IIR systems - Introduction to design of digital filters - Applications of DSP in radar, speech, and image processing - DSP using MATLAB
Brief List of Topics to be Covered	<ol style="list-style-type: none">1- Discrete time signals and systems2- z-transform and its application to LTI systems3- Discrete-time Fourier transform, discrete Fourier transform, and4- Fast Fourier transform5- Structures for FIR and IIR systems6- Introduction to design of digital filters
Course is prerequisite for	-