Course Number and Name

BEC505 - DIGITAL SIGNAL PROCESSING

Course Objectives

- To study about discrete time systems and to learn about FFT algorithms.
- To study the design techniques for FIR and IIR digital filters
- To study the finite word length effects in signal processing
- To study the properties of random signal,Multirate digital signal processing and about QMF filters.

Prerequisites	Co-requisites
BEC301-Signals and Systems	Nil

Course Outcomes (COs)

CO1 To apply DFT for the analysis of digital signals & systems

CO2 To design FIR filters

CO3 To design IIR filters

CO4 To characterize finite Word length effect on filters

CO5 To have a deep understanding on basics of digital signal processing which can be applied to communication systems

CO6 To design the Multirate Filters

Student Outcomes (SOs) from Criterion 3 covered by this Course

COs/SOs	a	b	c	d	e	f	g	h	i	j	k
CO1	H			H	H						
CO2	H	H	H	H	H				M		
CO3	H	H	H	H	H				M		
CO4		M		M		H			M		
CO5	M									M	
CO6			H			L					