

Course Number and Name												
BEC5L1 -DIGITAL SIGNAL PROCESSING LABORATORY												
Credits and Contact Hours												
2 and 45												
Course Coordinator's Name												
Dr B.Karthik												
Text Books and References												
Lab Manual												
Course Description												
<ul style="list-style-type: none"> To implement Linear and Circular Convolution To implement FIR and IIR filters To study the architecture of DSP processor. 												
Prerequisites								Co-requisites				
Object Oriented Programming & data Structures Lab								Digital Signal Processing				
required, elective, or selected elective (as per Table 5-1)												
Required												
Course Outcomes (COs)												
CO1 Experiment concepts of DSPand its applications usingMATLABSoftware												
CO2 To understand about the basic signal generation												
CO3 To learn Fourier Transform Concepts												
CO4 To design FIR filters												
CO5 To design IIR filters.												
CO6 Demonstrate their abilities towards DSP processor based implementation of DSP systems												
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		M	H	M			M		
	CO2	L		M		H		M				
	CO3	M				H		M		M	M	
	CO4	M	M	M		H		M		M	M	
	CO5	M	M	M		H				M		
	CO6	L			M						H	
List of Topics Covered												
1. Waveform generation 2. Sampling and its effect on aliasing 3. Linear and circular convolution 4. DFT computation 5. Fast Fourier transforms 6. FIR Filters Implementation 7. IIR Filters Implementation 8. Quantisation Noise. 9. Multirate Signal Processing 10 .DSP processor implementation.												