



# Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned				
		L	T	P	L	T	P	Total	
ETL916	PG Laboratory-I	--	--	2	--	--	1	1	
		<b>Examination Scheme</b>							<b>Total</b>
		<b>ISE</b>		<b>ESE</b>					
				<b>Practical</b>	<b>Oral</b>				
		<b>40</b>	<b>10</b>		<b>10</b>		<b>60</b>		

<b>Pre-requisite Course Codes</b>	--	
<b>Course Outcomes</b>	CO1	To design multirate DSP systems.
	CO2	Implement adaptive filters for a given application
	CO3	Study and apply the techniques of power spectrum estimation and wavelet theory for various applications.
	CO4	Apply Signal processing tools to bio-medical signal processing.

Exp. No.	Experiment Details	Ref.	Marks
1	Demonstrate the application of Periodogram and Spectrogram		5
2	Pre-processing of ECG signal, Simulated generation of ECG signal and isolation of QRS complex		5
3	Wavelet analysis for denoising		5
4	Wavelet transform for audio signal compression		5
5	Simulation of adaptive filtering		5
6	Generation of Chorus and flanging effects for voice record		5
7	Implementation of equalizers		5
8	Analysis of EEG signals		5
<b>Total Marks</b>			<b>40</b>