

Sardar Patel Institute of Technology Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

(Autonomous Institute Affiliated to University of Mumbai)

Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
Code		L	T	P	L	T	P	Total
EXL7051	Digital Image Processing Laboratory			2			1	1
		Examination Scheme						
		ISE			ESE			Total
				Practical		Oral		
		40 -		- 20		60		

Pre-requisite Course Codes			EXC7051 (Digital Image Processing)				
After successful completion of the course, student will be able to							
Course Outcomes	CO1	Discuss the fundamental concepts of digital image processing					
	CO2	Discuss image enhancement and segmentation techniques					
	CO3	Apply suitable operators for binary image processing					
	CO4	Apply suitable	pply suitable transform techniques on digital image				
	CO5	Discuss digita	l image compression and decompression techniques				

Exp. No.	Experiment Details Ref.		Marks		
1	Image Enhancement [Any one Experiment]				
	1.To enhance image using Histogram Equalization				
	2. To enhance image using Contrast Stretching				
2	2 Image Enhancement [Any one Experiment]				
	1. To enhance image using spatial filtering				
	2. To perform Colour Image Enhancement				
3	Image Segmentation [Any one Experiment]		5		
	1. To find edges using LOG and DOG				
	2. To find Edges using Prewit/ Sobel/ Fri-chen / Robert operators.				
4	Image Segmentation [Any one Experiment]		5		
	1. To find edges using canny Edge Detection.				
	2. To implement Morphological Operators				
5	Image Compression [Any one Experiment]		5		
	1. To compress using Huffman coding				
	2. To compress DCT coefficient of Image				
6	Image Compression [Any one Experiment]		5		
	1. To compress Wavelet Coefficient of Image.				
	2. To compress Binary Image using Run Length Coding				
7	Digital Watermarking		5		
8	Person Tracking using DWT		5		
Total Marks			40		

References:

As recommended by faculty.