

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

(Autonomous Institute Affiliated to University of Mumbai)

Course	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned				
Code		L	Т	Р	L	Т	Р	Total	
EXL7054				2			1	1	
	Optical Fiber Communication Laboratory	Examination Scheme							
		ISE			ES	SE	Total		
					Practical		ral		
		4	0	-			20	60	

Pre-requisite Course Codes			EX	EXC7053 (Optical Fiber Communication)							
After successf	ul comp	letion of the co	ourse	e, student	will be able to	C					
	CO1	Discuss the fundamental principles of optics and light wave									
Course Outcomes	CO2	Describe construction and working principle of optical fiber communication									
		system									
	CO3	Outline transmission characteristics of optical fiber									
	CO4	Discuss operational principle optical networks									
	CO5	Calculate 1	ink	budget	parameters	and	list	several	optical	network	
		managemen	t fun	ctions							

Exp. No.	Experiment Details	Ref.	Marks		
1	Measurement of Numerical Aperture of a given optical fiber.		5		
2	Measurement of propagation loss and bending loss of two different wavelengths.		5		
3	Study of characteristics of fiber optics LED and photo-detector.		5		
4	Study the characteristics of LASER.		5		
5	Study of Eye Pattern.		5		
6	Study and measurement of bit error rate.		5		
7	Fiber optic bi-directional communication		5		
8	Wavelength Division Multiplexing		5		
Total Marks					

References: As recommended by faculty.