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			
		L	T	P	L	T	P	Total
ETL502	Communication Engineering Laboratory-I	--	--	2	--	--	1	1
		Examination Scheme						
		ISE		ESE				Total
				Practical		Oral		
		40		10		10		60

Pre-requisite Course Codes	ETC502: Analog Communication	
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Demonstrate a clear understanding of different modulation and demodulation techniques used in analog communication.
	CO2	Able to use basic circuit building blocks to create more advanced circuits.
	CO3	Able to determine fundamental communication system parameters.

Exp. No.	Experiment Details	Ref.	Marks
1	Generation of DSB-FC signal on kit. AM generation and demodulation using IC AD633.		5
2	Generation of SSB-SC signal.		5
3	Generation of PWM signal using IC-741.		5
4	Generation of PPM signal using IC-555.		5
5	Generation of FM signal on Kit. Generation of FM signal using IC-555.		5
6	Study of AM Broadcast receiver.		5
7	Measurement of Sensitivity, Selectivity and Fidelity of Broadcast receiver.		5
8	Generation of Demodulation of PAM signal using Transistor BC547B and IC CD4016.		5
9	AM modulation and demodulation using SCILAB.		5
10	Generation and Detection of PCM.		5
11	Generation of DSB-SC using multiplier IC AD633.		5
*Any 08 Experiments to be performed.		Total Marks	40

References

As per recommended by faculty.