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
EXL603b	Power Electronics – I Lab	--	--	2	--	--	1	1
		Examination Scheme						
		ISE			ESE			Total
					Practical		Oral	
		40(50%weightage)			--		10	30

Pre-requisite Course Codes		
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Make use of simulation tool to analyze power electronic circuits and comment on its performance
	CO2	Analyze different power semiconductor switches with their characteristics
	CO3	Evaluate different performance parameters of rectifiers and choppers
	CO4	Evaluate different performance parameters of inverters and cycloconverters

Exp. No.	Experiment Details	Ref.	Marks
1	Analysis of V-I Characteristics of SCR.	4	5
2	Analysis of Half Wave Controlled Rectifier using SCR.	1	5
3	Analysis of V-I Characteristics of TRIAC.	7	5
4	Analysis of Light Dimmer using DIAC and TRIAC.	7	5
5	Analysis of different performance parameters of semi-converter using PSIM	2	5
6	Analysis of different performance parameters of full converter using PSIM	2	5
7	Evaluation of different performance parameters of Buck Converter using PMLK	2	5
8	Evaluation of different performance parameters of Boost Converter using PMLK	2	5
		Total Marks	40

References:
As recommended by faculty.