

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			
Coue		L	Т	Р	L	Т	Р	Total
ETEL703	Neural Network and Fuzzy Logic			2			1	1
		Examination Scheme						
		ISE			ESE			Total
]		Prac	ctical	0	ral	
		40		-	- 20		60	

Pre-requisite Course Codes	01 Applied Mathematics I				
After successful completion of the course, student will be able to					
Course Outcomes	CO1 CO2	By using the basic concepts of neural network students will able to design of different neural networks, their architecture and training algorithm using Simbrain/Scilab/Matlab			

Exp. No.	Experiment Details		Marks
1	Study and write program for perceptron learning rule for basic gates		5
2	Study and write program using C for perceptron learning rule for		5
	XOR gates		
3	Study and write program for backpropogation network		5
4	Study and write program for Adaline and madaline network		5
5	Study & amp; Design Competitive Learning network using Simbrain		5
6	Design Competitive Learning network using Simbrain for given		5
	problem		
7	Design Hopfield network for given problem using Simbrain for		5
	given problem		
8	Design Hebb network for given problem		5
9	To study & amp; Design a Fuzzy model for given problem using		5
	Scilab Fuzzy Editor		
10	Study and write program using Scilab Fuzzy Editor for image edge		5
	detection		
*Any 08 Experiment to be performed. Total Marks			40

References:

As per recommended by faculty.