

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
ETL501	Microcontroller and Application Laboratory			2			1	1
		Examination Scheme						
		ISE			ESE			Total
				Practical		Oral		
		40		10		10		60

Pre-requisite Course Codes	ETC501: Microcontroller and Application				
After successful completion of the course, student will be able to					
	CO1	1 Use hardware and software tools for microcontroller 8051 at ARM.			
Course Outcomes	CO2	Analyze the problem statement and write and execute an assembly language program for 8051/ARM7.			
	CO3	Debug an assembly language program for 8051/ARM7.			
	CO4	Document the procedure and analyze the result of an			
		experiment.			

Exp. No.	Experiment Details Ref.		Marks
1	Study Arithmetic Instructions of 8051.		5
2	a)Search for a Byte in a array of 10 elements		5
	b) Sorting of array elements in asending/desending order		
3	Timer/Counter Programming for 8051.		5
4	Serial port and Interrupt programming for 8051.		5
5	Interfacing of LED & LCD panel with 8051.		5
6	Interfacing of simple/matrix keypad with 8051.		5
7	Interfacing of sensors with 8051.		5
8	Study Arithmetic Instructions of ARM7.		5
9	Generating software delay for ARM7.		5
10	Interrupt programming for ARM7.		5
11	Interfacing of LCD panel with ARM7.		5
12	Interfacing of sensors with ARM7.		5
*Any 08 Experiments to be performed. Total Mark		arks	40

References

As per recommended by faculty.