



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned				
		L	T	P	L	T	P	Total	
ETL917	PG Laboratory-II	--	--	2	--	--	1	1	
		Examination Scheme							Total
		ISE		ESE			Total		
				Practical	Oral				
		40	10		10		60		

Pre-requisite Course Codes		ET913
Course Outcomes	CO1	Understand Wireless Sensor Networks architecture and technology.
	CO2	Able to classify functions of WSN protocol stack.
	CO3	Understand various advanced architectures and programming models
	CO4	Able to partition Software and Hardware for a given application
	CO5	Able to understand and design communication protocols
	CO6	Able to model Real-Time signal processing for control applications

Exp. No.	Experiment Details	Ref.	Marks
1	By using ARM cortex controller and IOT platform implement network server connectivity for real-time remote data access		5
2	By using ARM cortex controller interface GSM & GPS communication protocol.		5
3	By using ARM cortex controller interface Bluetooth communication protocol		5
4	By using ARM cortex controller interface Zigbee communication protocol		5
5	Implement File Allocation Table on a FLASH memory card		5
6	Implement RTOS using open source tools		5
7	Implement software and hardware partition using Microcontroller and FPGA		5
8	Mini-Project: Design and implement an Real-Time wireless communication application		5
Total Marks			40