

8051 Session wise Breakup

		Topics	Theory	Lab	Total No of hours
DAY 1	Introduction to 8051 Microcontrollers	8051 Architecture and Pin out	2Hrs	1Hrs	3Hrs
		Types of Memory			
		Register Description			
	Assembly Language Programming	I/O Ports			
		Introduction to assembly Language			
		Introduction to KIEL IDE			
	Assembly Language Programming	Instruction Set Description	1Hr		1Hr
		Addition,subtraction			
		Multiplication,division,Sorting			
		Factorial of a number, Multiplication by shift and add method,Matrix addition,Square, Square root, Fibonacci series		2Hr	2Hrs

Day2	Embedded C	Introduction to Embedded C	1Hr		1Hr
	Peripheral Interfacing	Frequency measurement,Relay interface	1Hr	5Hrs	6Hrs
		UART,Stepper motor interface			
		Display (LED, Seven segments, LCD) interface			
		Timer Module, External Interrupt			
		ADC/DAC Interfacing			