

Name of the Faculty: **Sudhir Dagar, Associate Professor**

Discipline : **Electronics and Communication Engineering**

Semester : **VII**

Subject : **Project**

Lesson Plan Duration: 15 Weeks (from August 2018 to December 2018)

Work load (Lecture/Practical per week in hours: **Lectures-00, Practical-06**)

Week	Theory		Practical	
	Lecture day	Topic(including assignment/test)	Practical day	Topic
1			1	Introduction
			2	Project/Synopsis outlines
2			3	Testing of circuit on bread board
			4	Problem rectification if any
3			5	Discussion regarding PCB layout preparation
			6	Techniques for PCB fabrication
4			7	Component mounting methods
			8	Discussion/Practice of Soldering techniques
5			9	Testing of circuit on PCB
			10	Fault Diagnosis methodology/flow chart
6			11	Discussion of Results
			12	First viva-voce
7			Ist Minor Test	
8			13	Presentation regarding Project/Synopsis report writing
			14	Overview of Introduction chapter
9			15	Overview of Objectives chapter
			16	Overview of Work methodology/flow chart chapter
10			17	Overview of Circuit diagram/block diagram chapter
			18	Overview of Advantages & disadvantages chapter
11			19	Overview of Applications chapter
			20	Overview of Results chapter
12			21	Overview of Conclusion chapter
			22	Overview of Future scope & features chapter
13			23	Overview of References chapter
			24	Overview of Bibliography chapter
14			IInd Minor Test	
15			25	Second viva voce
			26	Final submission

Lesson Plan

Name of Faculty : Vikram Singh Bhambhu, Guest Lecturer(ECE)
Discipline : Electronics & Communication Engg.
Semester : 7th
Subject : Embedded System Design
Lesson Plan Duration: 15 weeks (from August, 2018 to December, 2018)
Work Load (Lecture/Practical) per week (in hours): Lectures 04 hours

Week	Theory	
	Lecture Day	Topic
1 st	1	Introduction to Embedded System Design
	2	Embedded Microcontroller
	3	External Memory Microcontroller
	4	Processor Architecture : Harvard vs Princeton
2 nd	5	CISC vs RISC
	6	Microcontroller Memory types
	7	Microcontroller Features :clocking
	8	I/O pins, Peripherals
3 rd	9	Interrupts
	10	Timers
	11	Introduction to PIC microcontroller
	12	Architecture
4 th	13	Pipelining
	14	Programme Memmory Consideration
	15	Addressing Modes
	16	CPU Register
5 th	17	Instruction set
	18	Simple Operation
	19	Interrupt Logic
	20	Timer 2 Scalar initialization
6 th	21	Interrupt service Routine
	22	Loop time subroutine
	23	External interrupt
	24	Timers
7 th		Minor Test 1
8 th	25	Synchronous serial port module
	26	Serial peripheral device
	27	O/P Port etension
	28	I/P Port Extension
9 th	29	UART
	30	Developing tools/ environment
	31	Assembly Language Programming style
	32	Interperator
10 th	33	High level Language
	34	Debugging
	35	Airthemetic operation

	36	Bit addressing
11 th	37	Loop Control
	38	Stack operation
	39	Subroutine
	40	RAM direct addressing
12 th	41	State machine
	42	Oscillator
	43	Timer interrupt
	44	Memory mapped I/O
13 th	45	Music Box
	46	Mouse wheel turning
	47	PWM motor control
	48	Air craft demonstration
14 th	Minor Test 2	
15 th	49	Ultrasonic distance measuring
	50	Temperature Sensor
	51	Pressure Sensor
	52	Magnetic Field Sensor

Vikram Singh Bhambhu

Guest Lecturer (ECE)