Lesson Plan

Name of Faculty : Dr. Suman Rani, Assistant Professor
Discipline: ECE
Semester: 5th
Subject : Microprocessors and Microcontrollers (PC/ECE/11-T)
Lesson Plan Duration: 15 weeks
Work Load (Lectutre/Practical) per week (in hours): Lectures-03

Week	Theory		Actual Covered	Signature
	Lecture Day	**Topic (Including Assignment/Test)**		
1st	1	**Microprocessor 8085** History of microprocessors;		
	2	microprocessor 8085 Architecture,		
	3	Pin configuration;		
2nd	4	Memory Interfacing; microprocessor programming model; 8085 instructions;		
	5	Addressing modes;		
	6	counters and time delays;		
3rd	7	stack and subroutines;		
	8	Interrupts.		
	9	**Architecture of 8086**,		
4th	10	block diagram of 8086,		
	11	details of sub-blocks such as EU, BIU;		
	12	memory segmentation		
5th	13	physical address computations,		
	14	Program relocation.		
	15	**Microcontroller 8051** - Building Blocks Microprocessor vs microcontroller;		
6th	16	RISC vs CISC architectures;		
	17	microcontroller 8051: architecture,		
	18	pin configuration,		
7th		flag-bits and PSW register		
8th	19	inputoutput ports,		
	20	register banks		
	21	Stack.		
9th	22	**The 8255 PPI chip:** Architecture,		
	23	control words, modes and examples.		
	24	Introduction to DMA process,		
10th	25	8237 DMA controller.		
	26	8259 Programmable interrupt controllers.		
	27	Parallel and serial ADC & DAC interfacing;		
11th	28	Parallel ADC & DAC interfacing;		
	29	serial ADC & DAC interfacing;		
	30	LCD interfacing,		
12th	31	Keyboard interfacing with 8051 microcontroller		
	32	Revision of Unit-1		
	33	Revision of Unit-2		
13th	34	Revision of Unit-3		
	35	Revision of Unit-3		
	36	MCQ Based on unit1		
14th	37	MCQ Based on unit 2		
	38	MCQ Based on unit 3		
	39	MCQ Based on unit 4		