Lesson Plan

Name of Faculty : Dr. Suman Rani, Assistant Professor
Discipline : ECE
Semester : 4th
Subject : Microprocessors and Microcontrollers (PC/ECE/41-T)
Lesson Plan Duration : 15 weeks
Work Load (Lecture/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; 8085 instructions		
	5	Addressing modes		
	6	counters and time delays;		
3rd	7	stack and subroutines;		
	8	Interrupts, writing Assembly language Program		
	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		**1st Minor Test**		
8th	19	Flag-bits and PSW register		
	20	Input-output ports,		
	21	register banks		
9th	22	Stack and Addressing modes		
	23	**Introduction to Assemble Language Programming:** JUMP, LOOP, CALL Instruction		
	24	Arithmetic instructions: signed & unsigned concept		
10th	25	Logic & Compare instructions		
	26	Single bit instruction Programming		
	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		**2nd Minor Test**		
15th	37	MCQ Based on unit 2		
	38	MCQ Based on unit 3		
	39	MCQ Based on unit 4		