Lesson Plan

Name of Faculty : Dr. Suman Rani, Guest Faculty of ECE
Discipline : Electronics & communication Engg.
Semester : 5th (odd)
Subject : Computer architecture and organization (PC/ECE/54-T)

Week	Theory		Topic Covered Date and Remarks		
	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal
1st	1	**INTRODUCTION** Boolean algebra and Logic gates			
	2	Adders, Subtractors			
	3	Multiplexers, Encoders			
2nd	4	Decoders, Demultiplexers			
	5	Flip-Flops, Registers			
	6	K-map, counters			
3rd	7	**REGISTER TRANSFER & MICRO OPERATIONS** Register transfer language, register transfer			
	8	bus and memory transfer			
	9	Arithmetic, Logic and Shift microoperations			
4th	10	Arithmetic logic shift unit			
	11	**COMPUTER ORGANIZATION AND DESIGN.**Store program control concept			
	12	computer registers and instruction			
5th	13	timing and control, instruction cycle,			
	14	memory reference instruction, input-output and interrupt			
	15	design of basic computer and accumulator logic			
6th	16	**MICRO PROGRAMMED CONTROL** Control memory, address sequencing			
	17	microinstruction formats, micro-program sequencer			
	18	Implementation and design of control unit.			
7th	19	**CPU & PARALLEL PROCESSING** Introduction of central processing unit			
	20	general register organization			
	21	stack organization			
8th	22	instruction format			
	23	addressing mode and its type			
	24	operations in the instruction set			
9th	25	Instruction set based classification of processors			
	26	parallel processing			
	27	introduction of Pipelining and its type			
10th	28	vector and array processing.			
	29	**MEMORY HIERARCHY & I/O TECHNIQUES** The need for a memory hierarchy			
	30	Type of Memory: Main memory			
11th	31	Static and dynamic memory			
	32	Auxilary memmory			
	33	Casche memory			
12th	34	Virtual memory			
	35	Associate memory			
	36	Memory management			
13th	37	Input output interface			
	38	mode of transfer			
	39	MCQ based on Unit 1& 2			