

Lesson Plan

Name of Faculty : Ms. Priyanka Handa
Discipline : ECE
Semester : 3rd (odd)
Subject : Digital Electronics (PC/ECE/31-T)

Week	Theory			
	Lecture Day	Topic (Including Assignment/Test)	Date	Director-Principal
1 st	1	Digital Fundamentals: Decimal, Binary, octal, hexadecimal		
	2	1's and 2's complements		
	3	Binary codes: BCD, Excess-3, Gray		
2 nd	4	Alphanumeric codes, Boolean theorems		
	5	Logic Gates and Universal gates		
	6	Sum of products, product of sums, MIN TERMS, MAX TERMS		
3 rd	7	K-MAP		
	8	Quine-Mc Cluskey method of minimization		
	9	Design of half adder and full adder		
4 th	10	Combinational circuits: Half and full subtractors		
	11	Binary parallel adder, carry look ahead adder		
	12	BCD adder, code converter		
5 th	13	Multiplexer, Demultiplexer		
	14	Magnitude comparator		
	15	Decoder, Priority Encoder, Encoder		
6 th	16	Sequential Circuits: SR,JK Flip Flop		
	17	T,D FF		
	18	Master Slave FF		
7 th	19	Triggering of FF, Conversion of FF		
	20	Ripple counter		
	21	Ring counter		
8 th	22	UP down counter		
	23	Shift Register, Universal Shift Register		
	24	Memory devices: ROM,PROM		
9 th	25	EPROM,EEPROM		
	26	EAPROM		
	27	RAM,Static and Dynamic RAM		
10 th	28	PLA		
	29	PAL		
	30	FPGA		
11 th	31	Logic levels		
	32	Propagation delay		
	33	Power Dissipation		
12 th	34	Fan in,Fan out		
	35	Practice of Number systems		
	36	Conversion of Flip-flop Practice		
13 th	37	ADDER/Subtarctor revision		
	38	MCQ based on Unit 1& 2		
	39	MCQ based on Unit 1& 2		