

Detailed Teaching Plan

Lecture No.	Unit No.	Topic to be covered	Books & Page Nos.	Notes Page Nos.	Slide Nos.	A/V Resource
1	1	Comparison of digital and analog systems.				
2	1	Comparison of digital and analog systems.				
3	1	Number Systems: Binary Decimal				
4	1	Number Systems: Binary Decimal Number Systems: Octal and Hexadecimal				
5	1	Number Systems: Octal and Hexadecimal				
6	1	Number Systems: Octal and Hexadecimal				
7	1	Number Systems: Decimal Binary				
8	1	Number Systems: Hexadecimal and Octal				
9	1	Number Systems: Decimal, Octal				
10	1	Number Systems: Decimal and Hexadecimal				
11	1	Number Systems: Binary and Hexadecimal				
12	1	Binary Addition Subtraction Multiplication and Division				

Dr. V. V.

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13	1	1's and 2's complement of a number				
14	2	Different types of codes: 8421 BCD, Excess-3				
15	2	Different types of codes: Gray codes, ASCII				
16	2	Boolean algebra: Laws of Boolean algebra				
14	2	Boolean algebra: Laws of Boolean algebra				
18	2	Boolean algebra: Laws of Boolean algebra				
19	2	Boolean algebra: DeMorgan's theorem				
20	2	Types of logic gates: AND, OR and NOT				
21	2	Types of logic gates: Universal Gates: NAND, NOR				
22	2	Types of logic gates: EX-OR and EX-NOR.				
23	3	Max - term, Min - term expressions.				
24	3	Sum of product (SOP) expressions.				

W. P. D.

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25	3	Sum of product (SOP) expressions.				
26	3	Product of Sum(POS) expressions.				
27	3	Simplification of Boolean functions using laws and theorems.				
28	3	Simplification of Boolean functions using laws and theorems.				
29	3	Simplification of Boolean functions using K- map method				
30	3	Simplification of Boolean functions using K- map method				
31	3	Simplification of Boolean functions using K- map method				
32	3	Simplification of Boolean functions using K- map method				
33	4	Half Adder, Full Adder.				
34	4	Half subtractor, Full subtractor.				
35	4	Encoders:				
36	4	Encoders:				

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37	4	Encoders:				
38	4	Decoders				
39	4	Decoders				
40	4	Multiplexer.				
41	4	Multiplexer.				
42	4	Multiplexer				
43	4	Multiplexer				
44	4	Demultiplexer.				
45	5	Demultiplexer.				
46	4	Flip Flop - basic flip flop and latch				
47	4	Flip Flop - RS flip flop.				
48	4	Flip Flop - D flip flop..				

U. S. V.

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49	4	Flip Flop - JK flip flop..				
50	4	Flip Flop - T flip flop..				
51	4	Race around condition.				
52	4	Flip Flop - MS flip flop..				
53	4	UP-DOWN counter				
54	4	UP-DOWN counter				
55	4	Universal Shift Registers				
56	5	Digital to analog converters				
57	5	Digital to analog converters				
58	5	Analog to digital converters				
59	5	Analog to digital converters				
60	5	Different types of semiconductor memories				

Signature of Lecturer

Signature of HOD