

LESSON PLAN (SESSION 2024-25)

CLASS:- BCA

SEM:- 2ND

FACULTY NAME :- SHRUTI SHAHI

SUBJECT :- Digital Circuit and Logic Design(108 N)

S.N o.	Date.	Day	Paper No.	Unit Name.	Topic.
1	16-Jan-25	Thursday	108 N	unit 2 : Logic Gates and Boolean Algebra:	INTRODUCTION
2	17-Jan-25	Friday	108 N	unit 2: Logic Gates and Boolean Algebra:	INTRODUCTION
3	18-Jan-25	Saturday	108 N	unit 2: Logic Gates and Boolean Algebra:	Elements and functions of digital Logic gates
4	20-Jan-25	Monday	108 N	unit 2: Logic Gates and Boolean Algebra:	Elements and functions of digital Logic gates
5	21-Jan-25	Tuesday	108 N	unit 2: Logic Gates and Boolean Algebra:	Gate propagation delay time
6	22-Jan-25	Wednesday	CLASS TEACHING		
7	23-Jan-25	Thursday	108 N	unit 2: Logic Gates and Boolean Algebra:	logic gates applications
8	24-Jan-25	Friday	108 N	unit 2 : Logic Gates and Boolean Algebra:	Boolean algebra: Boolean operations, SOP and POS forms
9	25-Jan-25	Saturday	108 N	unit 2: Logic Gates and Boolean Algebra:	Boolean algebra: Boolean operations, SOP and POS forms
10	27-Jan-25	Monday	108 N	unit 2: Logic Gates and Boolean Algebra:	simplification using Karnaugh maps,
11	28-Jan-25	Tuesday	108 N	unit 2: Logic Gates and Boolean Algebra:	simplification using Karnaugh maps,
12	29-Jan-25	Wednesday	MONTHLY EVALUATION		
13	30-Jan-25	Thursday	108 N	unit 2: Logic Gates and Boolean Algebra:	Realization of expressions using universal logic gates.
14	31-Jan-25	Friday	108 N	unit 2: Logic Gates and Boolean Algebra:	Realization of expressions using universal logic gates.
15	1-Feb-25	Saturday	108 N	unit 3 : logical circuits:	Introduction of logical circuits
16	4-Feb-25	Tuesday	108 N	unit 3 : logical circuits:	Introduction of logical circuits
17	5-Feb-25	Wednesday	108 N	unit 3 : logical circuits:	design of Binary Adder- half and full, Serial, Parallel, Carry look ahead adder
18	6-Feb-25	Thursday	CLASS TEACHING		
19	7-Feb-25	Friday	108 N	unit 3 : logical circuits:	design of Binary Adder- half and full, Serial, Parallel, Carry look ahead adder
20	8-Feb-25	Saturday	108 N	unit 3 : logical circuits:	Full subtracter, code converters
21	10-Feb-25	Monday	108 N	unit 3 : logical circuits:	MUX and DEMUX, encoders and decoders
22	11-Feb-25	Tuesday	108 N	unit 3 : logical circuits:	MUX and DEMUX, encoders and decoders

23	13-Feb-25	Thursday	108 N	unit 3 : logical circuits:	seven segment decoder.
24	14-Feb-25	Friday	CLASS TEACHING		
25	15-Feb-25	Saturday	108 N	unit 4 : Sequential logic circuits:	latches, key debouncer, Flip flop: SR, J-K, D, T,
26	17-Feb-25	Monday	108 N	unit 4 : Sequential logic circuits:	Master slave J-K, flip-flops with preset and clear
27	18-Feb-25	Tuesday	108 N	unit 4 : Sequential logic circuits:	Master slave J-K, flip-flops with preset and clear
28	19-Feb-25	Wednesday	108 N	unit 4 : Sequential logic circuits:	Counters; Binary counter, synchronous counter, mod-10 counter,
29	20-Feb-25	Thursday	108 N	unit 4 : Sequential logic circuits:	Counters; Binary counter, synchronous counter, mod-10 counter,
30	21-Feb-25	Friday	MONTHLY EVALUATION		
31	22-Feb-25	Saturday	108 N	unit 4 : Sequential logic circuits:	Generation of control signals; Controlled counter;
32	24-Feb-25	Monday	108 N	unit 4 : Sequential logic circuits:	Generation of control signals; Controlled counter;
33	25-Feb-25	Tuesday	108 N	unit 4 : Sequential logic circuits:	Up-down counter, Shift register, Parity generator or checker,
34	27-Feb-25	Thursday	108 N	unit 4 : Sequential logic circuits:	Up-down counter, Shift register, Parity generator or checker,
35	28-Feb-25	Friday	108 N	unit 4 : Sequential logic circuits:	Synchronization of an asynchronous pulse.
36	1-Mar-25	Saturday	CLASS TEACHING		
37	3-Mar-25	Monday	108 N	unit 4 : Sequential logic circuits:	Synchronization of an asynchronous pulse.
38	4-Mar-25	Tuesday	108 N	unit 5 : Microprocessor	Microprocessor
39	5-Mar-25	Wednesday	108 N	unit 5 : Microprocessor	Architecture of a basic microcomputer
40	6-Mar-25	Thursday	108 N	unit 5 : Microprocessor	Architecture of a basic microcomputer
41	7-Mar-25	Friday	108 N	unit 5 : Microprocessor	Architecture of a basic microcomputer
42	8-Mar-25	Saturday	CLASS TEACHING		
43	10-Mar-25	Monday	108 N	unit 5 : Microprocessor	some general microprocessor system concepts:
44	11-Mar-25	Tuesday	108 N	unit 5 : Microprocessor	some general microprocessor system concepts
45	17-Mar-25	Monday	108 N	unit 5 : Microprocessor	I/O ports and buses, internal architecture of a microprocessor
46	18-Mar-25	Tuesday	108 N	unit 5 : Microprocessor	I/O ports and buses, internal architecture of a microprocessor
47	19-Mar-25	Wednesday	108 N	unit 5 : Microprocessor	Microprocessor fetches, decode, execute cycle memory mapped and I/O mapped ports, I/O
48	20-Mar-25	Thursday	CLASS TEACHING		

49	21-Mar-25	Friday	108 N	unit 5 : Microprocessor	Microprocessor fetches, decode, execute cycle memory mapped and I/O mapped ports, I/O
50	22-Mar-25	Saturday	108 N	unit 5 : Microprocessor	Microprocessor fetches, decode, execute cycle memory mapped and I/O mapped ports, I/O
	24-Mar-25	Monday	MID - TERM EXAM SCHEDULE		
	25-Mar-25	Tuesday			
	26-Mar-25	Wednesday			
	27-Mar-25	Thursday			
	28-Mar-25	Friday			
	29-Mar-25	Saturday			
51	1-Apr-25	Tuesday	108 N	unit 5 : Microprocessor	some general microprocessor system concepts: I/O ports and buses, internal architecture of a
52	2-Apr-25	Wednesday	108 N	unit 1 : Number system :	introduction of number system
53	3-Apr-25	Thursday	108 N	unit 1 : Number system :	Decimal, Binary, Octal, Hexadecimal number system,
54	4-Apr-25	Friday	108 N	unit 1 : Number system :	Decimal, Binary, Octal, Hexadecimal number system
55	5-Apr-25	Saturday	108 N	unit 1 : Number system :	Decimal, Binary, Octal, Hexadecimal number system
56	7-Apr-25	Monday	CLASS TEACHING		
57	8-Apr-25	Tuesday	108 N	unit 1 : Number system :	inter conversion between different number systems,
58	9-Apr-25	Wednesday	108 N	unit 1 : Number system :	different codes, gray code,
59	11-Apr-25	Friday	108 N	unit 1 : Number system :	different codes, gray code
60	12-Apr-25	Saturday	108 N	unit 1 : Number system :	different codes, gray code
61	15-Apr-25	Tuesday	108 N	unit 1 : Number system :	ASCII code, Floating point numbers.
62	16-Apr-25	Wednesday	CLASS TEACHING		
63	17-Apr-25	Thursday	108 N	unit 1 : Number system :	ASCII code, Floating point numbers.
64	19-Apr-25	Saturday	108 N	unit 1 : Number system :	ASCII code, Floating point numbers.
65	21-Apr-25	Monday	108 N	unit 1 : Number system :	ASCII code, Floating point numbers.
66	22-Apr-25	Tuesday	108 N	Revision	Revision
67	23-Apr-25	Wednesday	108 N	Revision	Revision
68	24-Apr-25	Thursday	MONTHLY EVALUATION		

69	25-Apr-25	Friday	108 N	Revision	Revision
70	26-Apr-25	Saturday	108 N	Revision	Revision
71	28-Apr-25	Monday	108 N	Revision	Revision
72	29-Apr-25	Tuesday	108 N	Revision	Revision
73	30-Apr-25	Wednesday	108 N	Revision	Revision