LESSON PLAN (SESSION 2024-25)

CLASS:- B.C.A SEM:- II FACULTY NAME :- ANIL KUMAR MAURYA

SUBJECT :- DESCRETE MATHEMATICS

S.No.	Date.	Day	Paper No.	Unit Name.	Topic.
1	16-Jan-25	Thursday	1	Set theory. Relations and Functions	Set notations and description, subsets
2	17-Jan-25	Friday	1	Set theory. Relations and Functions	Set notations and description, subsets
3	18-Jan-25	Saturday	1	Set theory. Relations and Functions	basic set operations,venn Diagrams
4	20-Jan-25	Monday	1	Set theory. Relations and Functions	basic set operations,venn Diagrams
5	21-Jan-25	Tuesday	1	Set theory. Relations and Functions	laws of set theory, partition of sets,min sets, duality principle
6	22-Jan-25	Wednesday	**CLASS TEACHING**		
7	23-Jan-25	Thursday	1	Set theory. Relations and Functions	laws of set theory, partition of sets,min sets, duality principle
8	24-Jan-25	Friday	1	Set theory. Relations and Functions	basic definitions of relations and functions
9	25-Jan-25	Saturday	1	Set theory. Relations and Functions	basic definitions of relations and functions
10	27-Jan-25	Monday	1	Set theory. Relations and Functions	graphics of relations, properties of relations; injective, subjective and bijective functions.
11	28-Jan-25	Tuesday	1	Set theory. Relations and Functions	graphics of relations, properties of relations; injective, subjective and bijective functions.
12	29-Jan-25	Wednesday	**MONTHY EVALUATION**		
13	30-Jan-25	Thursday	1	Set theory. Relations and Functions	Composition.
14	31-Jan-25	Friday	1	Set theory. Relations and Functions	Composition.
15	1-Feb-25	Saturday	1	Permutation, Combination and Algebraic System:	Combinations: Rule of products, permutations, combinations
16	4-Feb-25	Tuesday	1	Permutation, Combination and Algebraic System:	Combinations: Rule of products, permutations, combinations
17	5-Feb-25	Wednesday	1	Permutation, Combination and Algebraic System:	Combinations: Rule of products, permutations, combinations
18	6-Feb-25	Thursday	**CLASS TEACHING**		
19	7-Feb-25	Friday	1	Permutation, Combination and Algebraic System:	Combinations: Rule of products, permutations, combinations
20	8-Feb-25	Saturday	1	Permutation, Combination and Algebraic System:	Combinations: Rule of products, permutations, combinations
21	10-Feb-25	Monday	1	Permutation, Combination and Algebraic System:	Binary operations and general properties,
22	11-Feb-25	Tuesday	1	Permutation, Combination and Algebraic System:	Binary operations and general properties,

23	13-Feb-25	Thursday	1	Permutation, Combination and Algebraic System:	Binary operations and general properties,
24	14-Feb-25	Friday	**CLASS TEACHING**		
25	15-Feb-25	Saturday	1	Permutation, Combination and Algebraic System:	associatively, Identity elements, Universal elements,
26	17-Feb-25	Monday	1	Permutation, Combination and Algebraic System:	associatively, Identity elements, Universal elements,
27	18-Feb-25	Tuesday	1	Permutation, Combination and Algebraic System:	Group, Subgroup , ring , field.
28	19-Feb-25	Wednesday	1	Permutation, Combination and Algebraic System:	Group, Subgroup , ring , field.
29	20-Feb-25	Thursday	1	Permutation, Combination and Algebraic System:	Group, Subgroup , ring , field.
30	21-Feb-25	Friday	**MONTHY EVALUATION**		
31	22-Feb-25	Saturday	1	Algebra of Logic	Proposition and logical operators, negation
32	24-Feb-25	Monday	1	Algebra of Logic	Proposition and logical operators, negation
33	25-Feb-25	Tuesday	1	Algebra of Logic	conjunction, disjunction, conditional and biconditional
34	27-Feb-25	Thursday	1	Algebra of Logic	conjunction, disjunction, conditional and biconditional
35	28-Feb-25	Friday	1	Algebra of Logic	constructions of truth table, tautologies and contradictions,
36	1-Mar-25	Saturday	**CLASS TEACHING**		
37	3-Mar-25	Monday	1	Algebra of Logic	constructions of truth table, tautologies and contradictions,
38	4-Mar-25	Tuesday	1	Algebra of Logic	equivalence of formula, well formed ,formula ,normal forms
39	5-Mar-25	Wednesday	1	Algebra of Logic	equivalence of formula, well formed ,formula ,normal forms
40	6-Mar-25	Thursday	1	Algebra of Logic	equivalence of formula, well formed ,formula ,normal forms
41	7-Mar-25	Friday	1	Algebra of Logic	equivalence of formula, well formed ,formula ,normal forms
42	8-Mar-25	Saturday	**CLASS TEACHING**		
43	10-Mar-25	Monday	1	Recursion and recurrence	recursion, recursion and iteration
44	11-Mar-25	Tuesday	1	Recursion and recurrence	recursion, recursion and iteration
45	17-Mar-25	Monday	1	Recursion and recurrence	close form expression, sequence of integers
46	18-Mar-25	Tuesday	1	Recursion and recurrence	close form expression, sequence of integers
47	19-Mar-25	Wednesday	1	Recursion and recurrence	close form expression, sequence of integers
48	20-Mar-25	Thursday	**CLASS TEACHING**		

49	21-Mar-25	Friday	1	Recursion and recurrence	linear homogeneous and non homogeneous recurrence relations, generating functions
50	22-Mar-25	Saturday	1	Recursion and recurrence	linear homogeneous and non homogeneous recurrence relations, generating functions
	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	1	Recursion and recurrence	linear homogeneous and non homogeneous recurrence relations, generating functions
52	2-Apr-25	Wednesday	1	Recursion and recurrence	linear homogeneous and non homogeneous recurrence relations, generating functions
53	3-Apr-25	Thursday	1	Recursion and recurrence	linear homogeneous and non homogeneous recurrence relations, generating functions
54	4-Apr-25	Friday	1	Graph and Trees	Various types of graphs, simple and multigraphs,
55	5-Apr-25	Saturday	1	Graph and Trees	Various types of graphs, simple and multigraphs,
56	7-Apr-25	Monday	**CLASS TEACHING**		
57	8-Apr-25	Tuesday	1	Graph and Trees	Various types of graphs, simple and multigraphs,
58	9-Apr-25	Wednesday	1	Graph and Trees	directed and undirected graphs
59	11-Apr-25	Friday	1	Graph and Trees	directed and undirected graphs
60	12-Apr-25	Saturday	1	Graph and Trees	Representation of graphs in computer memory, Adjacency matrix
61	15-Apr-25	Tuesday	1	Graph and Trees	Representation of graphs in computer memory, Adjacency matrix
62	16-Apr-25	Wednesday	**CLASS TEACHING**		
63	17-Apr-25	Thursday	1	Graph and Trees	Incidence matrix, linked representation, Tree terminology
64	19-Apr-25	Saturday	1	Graph and Trees	Incidence matrix, linked representation, Tree terminology
65	21-Apr-25	Monday	1	Graph and Trees	Incidence matrix, linked representation, Tree terminology
66	22-Apr-25	Tuesday	1	Graph and Trees	Types of tree, binary tree, tree traversal , binary search tree.
67	23-Apr-25	Wednesday	1	Graph and Trees	Types of tree, binary tree, tree traversal , binary search tree.
68	24-Apr-25	Thursday	**MONTHY EVALUATION**		

69	25-Apr-25	Friday	1	RIVISION	RIVISION
70	26-Apr-25	Saturday	1	RIVISION	RIVISION
71	28-Apr-25	Monday	1	RIVISION	RIVISION
72	29-Apr-25	Tuesday	1	RIVISION	RIVISION
73	30-Apr-25	Wednesday	1	RIVISION	RIVISION