महाराणा प्रताप पी.जी. कालेज, जंगल धूसड़, गोरखपुर

LESSON PLAN (SESSION 2025-26)

CLASS:- B.Sc SEM:- VtH FACULTY NAME :- PRIYANSHU SRIVASTAV

SUBJECT :- Data Structure

S.No.	Date.	Day	Paper No.	Unit Name.	Topic.
1	16-Jul-25	Wednesday	203N	Basic concepts of Data Structures	Abstract data types
2	17-Jul-25	Thursday	203N	Basic concepts of Data Structures	Abstract data types
3	18-Jul-25	Friday	203N	Abstract data types	Fundamental and derived data types
4	19-Jul-25	Saturday	203N	Abstract data types	Primitive data Structures
5	21-Jul-25	Monday	203N	Abstract data types	Primitive data Structures
	22-Jul-25	Tuesday	CLASS TEACHING		
6	23-Jul-25	Wednesday	203N	Design and analysis of algorithm	comparison of algorithms
7	24-Jul-25	Thursday	203N	Design and analysis of algorithm	Top-down approaches
8	25-Jul-25	Friday	203N	Design and analysis of algorithm	Bottom up approaches
9	26-Jul-25	Saturday	203N	Design and analysis of algorithm	Analysis of algorithm
10	28-Jul-25	Monday	203N	Design and analysis of algorithm	Frequency count
	29-Jul-25	Tuesday	MONTHY EVALUATION		
11	30-Jul-25	Wednesday	203N	Design and analysis of algorithm	Complexity measures in terms of time and space
12	31-Jul-25	Thursday	203N	Design and analysis of algorithm	structured approach to programming
13	1-Aug-25	Friday	203N	Representation of arrays	single and multidimensional arrays
14	2-Aug-25	Saturday	203N	Representation of arrays	Address calculation using column major ordering
15	4-Aug-25	Monday	203N	Representation of arrays	Address calculation using row major ordering
	5-Aug-25	Tuesday	CLASS TEACHING		
16	6-Aug-25	Wednesday	203N	Representation of arrays	various operations on Arrays
17	7-Aug-25	Thursday	203N	Application of arrays	Matrix addition,substraction
18	8-Aug-25	Friday	203N	Application of arrays	Matrix multiplication
19	11-Aug-25	Monday	203N	Application of arrays	sparse polynomial representation
20	12-Aug-25	Tuesday	203N	Application of arrays	sparse polynomial addition
	13-Aug-25	Wednesday	CLASS TEACHING		
21	14-Aug-25	Thursday	203N	Searching	Sequential searches
22	18-Aug-25	Monday	203N	Searching	binary searches
23	19-Aug-25	Tuesday	203N	Sorting	Insertion

24	20-Aug-25	Wednesday	203N	Sorting	Selection
25	21-Aug-25	Thursday	203N	Sorting	bubble
	22-Aug-25	Friday	**CLASS TEACHING**		
26	23-Aug-25	Saturday	203N	Sorting	Quick
27	25-Aug-25	Monday	203N	Sorting	merge
28	26-Aug-25	Tuesday	203N	Linked Lists	Singly linked list
29	27-Aug-25	Wednesday	203N	Linked Lists	operations on list
30	28-Aug-25	Thursday	203N	Linked Lists	Polynomial representation
	29-Aug-25	Friday	**MONTHY EVALUATION**		
31	30-Aug-25	Saturday	203N	Linked Lists	manipulation using linked lists
32	1-Sep-25	Monday	203N	Linked Lists	Circular linked lists
33	2-Sep-25	Tuesday	203N	Linked Lists	Doubly linked lists
34	3-Sep-25	Wednesday	203N	Linked Lists	Generalized list structure
35	4-Sep-25	Thursday	203N	Linked Lists	Sparse Matrix representation using generalized list
	6-Sep-25	Saturday	**CLASS TEACHING**		
36	8-Sep-25	Monday	203N	Linked Lists	Sparse Matrix representation using generalized list
37	9-Sep-25	Tuesday	203N	Stacks and Queues	Representation of stacks and queues using arrays
38	10-Sep-25	Wednesday	203N	Stacks and Queues	Representation of stacks and queues using linked list
39	11-Sep-25	Thursday	203N	Stacks and Queues	Circular queues
40	12-Sep-25	Friday	203N	Stacks and Queues	Priority Queue
	13-Sep-25	Saturday	**CLASS TEACHING**		
41	15-Sep-25	Monday	203N	Stacks and Queues	D-E-Queue
42	16-Sep-25	Tuesday	203N	Applications of stacks	Conversion from infix to postfix expressions
43	17-Sep-25	Wednesday	203N	Applications of stacks	Conversion from infix to prefix expressions
44	18-Sep-25	Thursday	203N	Applications of stacks	Evaluation of postfix expression using stacks
45	19-Sep-25	Friday	203N	Applications of stacks	Evaluation of postfix expression using stacks
	20-Sep-25	Saturday	**CLASS TEACHING**		
46	22-Sep-25	Monday	203N	Binary tree traversal	Preorder
47	23-Sep-25	Tuesday	203N	Binary tree traversal	In-order
48	24-Sep-25	Wednesday	203N	Binary tree traversal	Post ordered
49	25-Sep-25	Thursday	203N	Trees	Recursive Algorithms
50	26-Sep-25	Friday	203N	Trees	non-recursive Algorithms
	27-Sep-25	Saturday	**MONTHY EVALUATION**		
51	29-Sep-25	Monday	203N	Trees	Representation of trees
52	30-Sep-25	Tuesday	203N	Trees	Representation of trees
53	3-Oct-25	Friday	203N	Trees	Applications of Tree
54	4-Oct-25	Saturday	203N	Trees	Binary tree
55	6-Oct-25	Monday	203N	Trees	representation of a tree
	7-Oct-25	Tuesday	**CLASS TEACHING**		
56	8-Oct-25	Wednesday	203N	Graph representation	Adjacency matrix
57	9-Oct-25	Thursday	203N	Graph representation	Adjacency list

58	10-Oct-25	Friday	203N	Graph representation	Adjacency matrix
59	11-Oct-25	Saturday	203N	Graph representation	Adjacency list
	13-Oct-25	Monday	**MID - TERM EXAM SCHEDULE**		
	14-Oct-25	Tuesday			
	15-Oct-25	Wednesday			
	16-Oct-25	Thursday			
	17-Oct-25	Friday			
	18-Oct-25	Saturday			
60	21-Oct-25	Tuesday	203N	Traversal schemes	Depth first search
61	24-Oct-25	Friday	203N	Traversal schemes	Breadth first search
62	25-Oct-25	Saturday	203N	Traversal schemes	Spanning tree
63	27-Oct-25	Monday	203N	Traversal schemes	Shortest Patch algorithms
64	28-Oct-25	Tuesday	203N	Traversal schemes	Prime's algorithms
	29-Oct-25	Wednesday	**CLASS TEACHING**		
65	30-Oct-25	Thursday	203N	Traversal schemes	Depth first search
66	31-Oct-25	Friday	203N	Traversal schemes	Breadth first search
67	1-Nov-25	Saturday	203N	Traversal schemes	Spanning tree
68	3-Nov-25	Monday	203N	Traversal schemes	Shortest Patch algorithms
69	4-Nov-25	Tuesday	203N	Traversal schemes	Prime's algorithms
	6-Nov-25	Thursday	**CLASS TEACHING**		
70	7-Nov-25	Friday	203N	Traversal schemes	Prime's algorithms
71	8-Nov-25	Saturday	203N	Traversal schemes	Kruskal's algorithms
72	10-Nov-25	Monday	203N	Traversal schemes	Kruskal's algorithms
73	11-Nov-25	Tuesday	203N	REVISION	REVISION
74	12-Nov-25	Wednesday	203N	REVISION	REVISION
	13-Nov-25	Thursday	**CLASS TEACHING**		
75	14-Nov-25	Friday	203N	REVISION	REVISION
76	15-Nov-25	Saturday	203N	REVISION	REVISION