



# Aggarwal College Ballabgarh

## LESSON PLAN 17 WEEKS (JAN-APRIL)-2025

**Name of Faculty: Ms. Kanchan Malik**

**Designation/ Department: Assistant Prof. , Department of Mathematics**

<b>CLASS: B.Sc.(H)MATHS-II</b>	<b>SEMESTER: IV</b>	<b>SECTION: A</b>
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**SUBJECT: DATA STRUCTURES USING C**

<b>Week</b>		
<b>1</b>	<b>7-1-2025</b>	Introduction
	<b>8-1-2025</b>	Data structure and its examples
	<b>9-1-2025</b>	Types & classification of data structure
	<b>10-1-2025</b>	Purpose of data structure
	<b>11-1-2025</b>	Operations of DS
	<b>12-1-2025</b>	<b>S. U. N. D. A. Y.</b>
<b>2</b>	<b>13-1-2025</b>	Concept of stack
	<b>14-1-2025</b>	Examples
	<b>15-1-2025</b>	Concept of queues
	<b>16-1-2025</b>	Examples
	<b>17-1-2025</b>	Introduction to lists
	<b>18-1-2025</b>	Traversing in list
	<b>19-1-2025</b>	<b>S. U. N. D. A. Y.</b>
<b>3</b>	<b>20-1-2025</b>	searching in list
	<b>21-1-2025</b>	Inserting in list
	<b>22-1-2025</b>	Deletion from list

	23-1-2025	Circular list
	24-1-2025	Examples
	25-1-2025	Circular list
	26-1-2025	<b>REPUBLIC DAY /S. U. N. D. A. Y.</b>
4	27-1-2025	Examples
	28-1-2025	Two way list
	29-1-2025	Examples
	30-1-2025	Doubts of linked list
	31-1-2025	Examples
	1-2-2025	Threaded list
	2-2-2025	<b>S. U. N. D. A. Y/BASANT PANCHAMI</b>
5	3-2-2025	Examples
	4-2-2025	Revision
	5-2-2025	Introduction to arrays
	6-2-2025	Types of Arrays with examples
	7-2-2025	Memory location
	8-2-2025	Address calculation 2 dim
	9-2-2025	<b>S. U. N. D. A. Y</b>
6	10-2-2025	Address calculation 3 dim
	11-2-2025	Examples
	12-2-2025	<b>HOLIDAY: GURU RAVIDAS JAYANTI</b>
	13-2-2025	Address calculation in array
	14-2-2025	Sequential allocation
	15-2-2025	Sequential allocation

	16-2-2025	<b>S. U. N. D. A. Y.</b>
7	17-2-2025	Traversing and searching in array
	18-2-2025	Insertion and deletion in array
	19-2-2025	Sparse array
	20-2-2025	Examples
	21-2-2025	Introduction to trees
	22-2-2025	Definitions
	23-2-2025	<b>S. U. N. D. A. Y.</b>
8	24-2-2025	Binary trees
	25-2-2025	2 trees
	26-2-2025	<b>HOLIDAY: MAHA SHIVRATRI</b>
	27-2-2025	Complete binary trees
	28-2-2025	Binary search trees
	1-3-2025	Examples
	2-3-2025	<b>S. U. N. D. A. Y.</b>
9	3-3-2025	Tree traversal-in order
	4-3-2025	Preorder post order
	5-3-2025	Expression trees
	6-3-2025	Search algorithms
	7-3-2025	Tree traversal algorithms
	8-3-2025	Examples of tree traversal
	9-3-2025	<b>S. U. N. D. A. Y.</b>
10	10-3-2025	<b>H.O.L.I-- B.R.E.A.K</b>
	11-3-2025	<b>H.O.L.I-- B.R.E.A.K</b>

	12-3-2025	H.O.L.I-- B.R.E.A.K
	13-3-2025	H.O.L.I-- B.R.E.A.K
	14-3-2025	H.O.L.I-- B.R.E.A.K
	15-3-2025	H.O.L.I-- B.R.E.A.K
	16-03-2025	S. U. N. D. A. Y.
11	17-3-2025	Threaded trees, trees in search algorithm
	18-3-2025	Avl examples
	19-3-2025	Revision and doubt
	20-3-2025	Graph data structure
	21-3-2025	Traversing and searching
	22-3-2025	Insertion and deletion
	23-3-2025	S. U. N. D. A. Y.
12	24-3-2025	Examples
	25-3-2025	Graph traversal
	26-3-2025	Graph traversal
	27-3-2025	Bft
	28-3-2025	Dft
	29-3-2025	Krushkal algorithm
	30-3-2025	S. U. N. D. A. Y.
13	31-3-2025	HOLIDAY: ID-UL-FITR
	1-4-2025	Prims algorithm
	2-4-2025	Warshal algorithm
	3-4-2025	Prims algorithm
	4-4-2025	Dijkstras algorithm

	5-4-2025	Adjacency matrix
	6-4-2025	<b>S. U. N. D. A. Y.</b>
14	7-4-2025	B trees
	8-4-2025	B+ trees
	9-4-2025	B* trees
	10-4-2025	<b>HOLIDAY: MAHAVIR JAYANTI</b>
	11-4-2025	Sorting-internal and external
	12-4-2025	Quick sort
	13-4-2025	<b>S. U. N. D. A. Y.</b>
15	14-4-2025	<b>HOLIDAY: AMBEDKAR JAYANTI</b>
	15-4-2025	BUBBLE SORT
	16-4-2025	Merge sort
	17-4-2025	Tournament sort
	18-4-2025	Bubble sort
	19-4-2025	TEST
	20-4-2025	<b>S. U. N. D. A. Y.</b>
16	21-4-2025	Selection sort
	22-4-2025	Time space tradeoff
	23-4-2025	Complexity of algorithm
	24-4-2025	Other sorting techniques
	25-4-2025	Examples
	26-4-2025	Applications of sorting and searching
	27-4-2025	<b>S. U. N. D. A. Y.</b>
	28-4-2025	Revision

17	29-4-2025	Previous year question paper discussion
	30-4-2025	<b>HOLIDAY: AKSHAY TRITYA</b>
	01-05-2025	Previous year question paper discussion
	02-05-2025	Previous year question paper discussion
	03-05-2025	Previous year question paper discussion
	04-05-2025	<b>S. U. N. D. A. Y.</b>

Signature