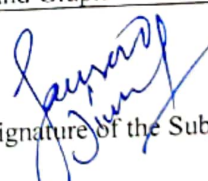


POST GRADUATE GOVERNMENT COLLEGE SECTOR-46, CHANDIGARH

Department of Computer Applications

Data Structure
BCA 3rd Semester
Session 2023-2024
July 2023 to Dec 2023

1	21.07.2023	28.07.2023	Data Structure and Data Structure operations. Applications of Data Structure. Basic data Structures. Arrays: Introduction, Types of Arrays, Memory representation, Applications and operations.
2	29.07.2023	05.08.2023	Stacks: Introduction, memory representation, Applications and operations, Recursion.
3	07.08.2023	12.08.2023	Linked List: Operations: -traversing, searching, inserting, deleting, operations on header linked list
4	14.08.2023	19.08.2023	Circular linked list, doubly linked list, memory representation, Applications, polynomial manipulation.
5	21.08.2023	26.08.2023	Queue: Introduction, Types, Memory Representation and Applications.
6	28.08.2023	02.09.2023	Trees – Definition and Basic concepts, Representation in Contiguous Storage, Binary Tree.
7	04.09.2023	09.09.2023	Binary Tree Traversal, Searching, Insertion and deletion in Binary trees, Binary Search tree.
8	11.09.2023	16.09.2023	Graphs: Introduction, Memory Representation, Graph Traversal (DFS and BFS)
9	18.09.2023	23.09.2023	Searching: Binary and Linear Search;
10	25.09.2023	30.09.2023	Sorting: Bubble sort, Comparison of various Searching and Sorting algorithms.
11	03.10.2023	07.10.2023	Insertion sort, Selection sort, Merge Sort, Quick sort.
12	Mid-Semester Test w.e.f.09.10.2023 till 16.10.2023 (tentative)		
13	17.10.2023	27.10.2023	Revision of Unit 1 Array, Stack
14	31.10.2023	04.11.2023	Revision of Unit 2 Queue, Link List
15	06.11.2023	11.11.2023	Revision of Unit 3, Sorting, Binary Search and Linear Search
16	14.11.2023	18.11.2023	Revision of Unit 4 Tree and Graph


Signature of the Subject Teacher