S1 MCA—DATA STRUCTURES LAB SCHEDULE (2022-24 Batch)

Set 1 (complete on or before 26/11/2022)

1. Array Insertion

Set 2 (complete on or before 28/10/2022)

2. Array Deletion

Set 3 (complete on or before 2/11/2022)

3. Merge two sorted arrays and store in a third array

Set 4 (complete on or before 4/11/2022)

4. Stack operations

Set 5 (complete on or before 11/11/2022)

5. Linear Queue operations

Set 6 (complete on or before 16/11/2022)

6. Circular Queue - Add, Delete, Search

Set 7 (complete on or before 8/12/2022)

7. Single linked list operations
8. Singly Linked Stack - Push, Pop, Linear Search

Set 8 (complete on or before 9/12/2022)

9. Doubly linked list - Insertion, Deletion, Search
10. Binary Search Trees- Insertion, Deletion, Search

Set 9 (complete on or before 14/12/22)

11. Set Data Structure and set operations (Union, Intersection and Difference) using Bit String.

Set 10 (complete on or before 16/12/22)

12. Disjoint Sets and the associated operations (create, union, find)

Set 11 (complete on or before 21/12/21)

13. Prim's Algorithm for finding the minimum cost spanning tree

Set 12 (complete on or before 23/12/2022)

14. Kruskal's algorithm using the Disjoint set data structure

Set 13 (complete on or before 6/1/2023)

15. B Trees and its operations

Set 14 complete on or before 11/01/2023)

16. Graph Traversal techniques (DFS and BFS) and Topological Sorting
17. Finding the Strongly connected Components in a directed graph

16/1/2023 ——---Revision

Internal Lab Examination ----------18/01/2023