



Course Outline

CSE 2103: Data Structures and Algorithms (3 Credits)

Week No.	Content
Week-1	Asymptotic Notation
Week-2	Singly Linked List
Week-3	Doubly Linked List
Week-4	Stacks and Queues
Week-5	Binary Search Tree
Week-6	Graph Searching: Breadth First Search (BFS)
Week-7	Graph Searching: Depth First Search (DFS)
Week-8	Trees
Week-9	Divide and Conquer: Merge Sort and Min-max Algorithm
Week-10	Divide and Conquer: Quick Sort; Master Theorem
Week-11	Heap, Heap Sort and Priority Queue
Week-12	Greedy Algorithm: Prim's Algorithm for Minimum Spanning Tree
Week-13	Set Operations: Disjoint Set
Week-14	Greedy Algorithm: Kruskal's Algorithm for Minimum Spanning Tree
Week-15	Dynamic Programming: Longest Common Subsequence (LCS)

Course Teacher

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Lecturer

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