NOC: Fundamental Algorithms: Design and Analysis

COURSE LAYOUT

Week 1:
Insertion Sort, Asymptotic Notation, Merge Sort, QuickSort, Divide and Conquer

Week 2:
Heap Sort, Linear-time Sorting, Order Statistics

Week 3:
Hashing, BST Sort, Augmenting Data Structures, Dynamic Programming

Week 4:
Graphs: BFS, DFS, Prim’s, Shortest Paths

SUGGESTED READING