Diploma, Anna University-UG, PG., HSC & SSLC

Notes
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MC5311 DATA STRUCTURES AND ALGORITHMS LABORATORY

DETAILED SYLLABUS

OBJECTIVES

- To develop skills in design and implementation of data structures.
- To learn and implement linear, non linear and tree data structures.
- To learn Set ADT and Graph data structures and its applications.
- To study, implement and analyse the different sorting techniques.

LIST OF EXPERIMENTS

- 1. Array implementation of stack
- 2. Linked list implementation of Queue
- 3. Polynomial Addition using Linked List 37
- 4. Binary Search tree operations
- 5. AVL Tree operations
- 6. Graph Traversals
- 7. Shortest Path using Dijkstra"s Algorithm
- 8. Minimum Spanning Tree using Prim's Algorithm
- 9. Dictionary application using any of the data structure
- 10. Divide and Conquer Method Merge Sort
- 11. Back Tracking 8-Queen's Problem