Diploma, Anna Univ UG & PG Courses

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CS8381 DATA STRUCTURES LABORATORY

DETAILED SYLLABUS

OBJECTIVES

- To implement linear and non-linear data structures
- To understand the different operations of search trees
- To implement graph traversal algorithms
- To get familiarized to sorting and searching algorithms

LIST OF EXPERIMENTS:

1. Array implementation of Stack and Queue ADTs

2. Array implementation of List ADT

3. Linked list implementation of List, Stack and Queue ADTs

4. Applications of List, Stack and Queue ADTs

5. Implementation of Binary Trees and operations of Binary Trees

6. Implementation of Binary Search Trees

7. Implementation of AVL Trees

8. Implementation of Heaps using Priority Queues.

9. Graph representation and Traversal algorithms

10. Applications of Graphs

11. Implementation of searching and sorting algorithms

12. Hashing – any two collision techniques