Diploma, Anna Univ UG & PG Courses

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EC8381 FUNDAMENTALS OF DATA STRUCTURES IN C LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

- To understand and implement basic data structures using C
- To apply linear and non-linear data structures in problem solving.
- To learn to implement functions and recursive functions by means of data structures
- To implement searching and sorting algorithms

LIST OF EXERCISES

- 1. Basic C Programs looping, data manipulations, arrays
- 2. Programs using strings string function implementation
- 3. Programs using structures and pointers
- 4. Programs involving dynamic memory allocations
- 5. Array implementation of stacks and queues
- 6. Linked list implementation of stacks and queues
- 7. Application of Stacks and Queues
- 8. Implementation of Trees, Tree Traversals
- 9. Implementation of Binary Search trees
- 10. Implementation of Linear search and binary search
- 11. Implementation Insertion sort, Bubble sort, Quick sort and Merge Sort
- 12. Implementation Hash functions, collision resolution technique