

COURSE OBJECTIVES:

- ☐ To develop applications in C
- ☐ To implement linear and non-linear data structures
- ☐ To understand the different operations of search trees
- ☐ To get familiarized to sorting and searching algorithms

LIST OF EXPERIMENTS

1. Practice of C programming using statements, expressions, decision making and iterative statements
2. Practice of C programming using Functions and Arrays
3. Implement C programs using Pointers and Structures
4. Implement C programs using Files
5. Development of real time C applications
6. Array implementation of List ADT
7. Array implementation of Stack and Queue ADTs
8. Linked list implementation of List, Stack and Queue ADTs
9. Applications of List, Stack and Queue ADTs
10. 10.Implementation of Binary Trees and operations of Binary Trees
11. Implementation of Binary Search Trees
12. Implementation of searching techniques
13. Implementation of Sorting algorithms : Insertion Sort, Quick Sort, Merge Sort
14. Implementation of Hashing – any two collision techniques

TOTAL: 45 PERIODS**COURSE OUTCOMES:**

At the end of the course, the students will be able to:

CO1: Use different constructs of C and develop applications

CO2: Write functions to implement linear and non-linear data structure operations

CO3: Suggest and use the appropriate linear / non-linear data structure operations for a given problem

CO4: Apply hash functions that result in a collision free scenario for data storage and Retrieval

CO5: Implement Sorting and searching algorithms for a given application

Anna University Data Structures Lab Manual

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Reviewing **Anna University Data Structures Lab Manual**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Anna University Data Structures Lab Manual**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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