

Data Structure

MEC

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Syllabus

- Array
- Linked-list
- Stack, Queue
- Sorting
- Searching
- Tree, binary tree, BST, balancing, deleting, insertion, red-black tree
- Graph, graph traversals
- Hashing
- Dynamic programming

Books

- Langsam Y, Augenstein M J and Tanenbaum A M. Data Structures using C and C++, Prentice Hall (1995)
- Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, Clifford Stein. Introduction to Algorithms, McGraw-Hill, 2001.

Marks - Distribution

- Mid Sem I – 25%
- Mid Sem II – 25%
- End Sem – 25%
- Assignments and Labs – 25%

Programming Languages – C, C++, Java, Python,.....