

UCS301 Data structures Evaluation Pattern

Component	Marks/Weightage out of 100
MST	30
EST	40
Quiz	15
Lab Evaluation	15

UCS301 Data Structures MST Syllabus

Analysing algorithms: Basics of algorithm and its analysis, Complexity classes, order arithmetic, Time and space trade-off in algorithms.

Linear Data Structures: Arrays, Strings and string processing, Linked lists (Singly, Circular), Abstract data types, their implementation and applications: Stacks (using Arrays and Linked-list), Queues (using Arrays and Linked-list)

Searching and Sorting: Linear Search, Binary Search. Introduction to internal and external sort, Bubble Sort, Selection Sort, Insertion Sort.