

Adichunchanagiri Institute of Technology, Chikmagalur
Department of Information Science and Engineering

Data Structures using Python

Add on Course for 6th Semester B.E.,ISE Duration:30 Hours

Syllabus

Module 1:

Introduction, Arrays, Lists, Dictionary, Tuple, Set, Frozen Set, String, Byte Array, Collection
Module: Counter, OrderDict, DeafaultDict, ChainMap, NamedTuple, DeQue, UserDict,
UserList, UserString.

Module 2:

Linked list, Stack, Queue, Deque, Advanced Linked list, Hash Table, Binary tree, Search
tree, Heap, Graphs

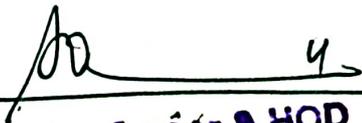
Module 3:

Sorting Algorithms: Buuble sort, Merge sort, Insertion sort, Shell sort, Selection sort.
Searching Algorithms: Linear search, Interpolation search. **Graph Algorithms:** Depth First
Traversal, Breadth First Traversal

Textbook:

Python Data Structures by tutorialspoint (www.tutorialspoint.com)

Approved -



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