

204184: Data Structures

SE (E&TC/Elex) - 2019 Course

Other Resources

Animations

- Yashavant Kanetkar, "Data Structures Through C", BPB Publication, 2nd Edition (CD available)
- Wacom (Pen Tablet)

Data Structures and its Real life Applications

https://www.youtube.com/watch?v=d_XvFOkQz5k

Unit 1- Introduction to C Programming

<https://www.cs.usfca.edu/~galles/visualization/RecFact.html>

<https://www.cs.usfca.edu/~galles/visualization/RecReverse.html>

Unit 2- Searching and Sorting Algorithms

<https://www.cs.usfca.edu/~galles/visualization/Search.html>

<https://www.cs.usfca.edu/~galles/visualization/ComparisonSort.html>

Unit 3 – Stack and Queue:

<https://www.cs.usfca.edu/~galles/visualization/StackArray.html>

<https://www.cs.usfca.edu/~galles/visualization/QueueArray.html>

Unit 4 - Linked List:

<https://www.youtube.com/watch?v=SuBch2MZpZM>

<https://log2base2.com/courses/trial-videos/linked-list-basics-trial>

<https://visualgo.net/en/list>

<https://yongdanielliang.github.io/animation/web/LinkedList.html>

<https://www.cs.usfca.edu/~galles/visualization/StackLL.html>

<https://www.cs.usfca.edu/~galles/visualization/QueueLL.html>

<https://www.cs.usfca.edu/~galles/visualization/Algorithms.html>

Unit 5- Trees:

<https://www.cs.usfca.edu/~galles/visualization/BST.html>

<https://people.ok.ubc.ca/ylucet/DS/AVLtree.html>

Unit 6- Graphs:

<https://www.hackerearth.com/practice/algorithms/graphs/depth-first-search/visualize/>

<https://people.ok.ubc.ca/ylucet/DS/DFS.html>

<https://visualgo.net/en/dfsdfs>

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Other Resources

<https://people.ok.ubc.ca/ylucet/DS/BFS.html>

<https://people.ok.ubc.ca/ylucet/DS/Kruskal.html>

<https://people.ok.ubc.ca/ylucet/DS/Prim.html>

<https://visualgo.net/training?diff=Medium&n=7&tl=0&module=dfsdfs>

<https://www.hackerearth.com/practice/algorithms/graphs/depth-first-search/visualize/>

For coding practice:

<https://www.hackerearth.com/problem/algorithm/beginners-task/>

Online Test

<https://www.indiabix.com/online-test/c-programming-test/>

VIRTUAL LAB:

1. Data Structures-I: <https://ds1-iiith.vlabs.ac.in/data-structures-1/>
2. Data Structures -II: <https://ds2-iiith.vlabs.ac.in/data-structures-2/>
3. Data Structures Lab: <http://cse01-iiith.vlabs.ac.in/>
4. Computer Programming Lab: <http://cse02-iiith.vlabs.ac.in/>