1. **Text Books**
    a. Introduction to Algorithms, Cormen, Second Edition
    b. Computer Algorithms, Sahini, Second Edition
    c. CLRS Solutions
    d. CLRS Book Chapterwise

2. **PPTs**
    a. David Luebke, University of Virginia

3. **Video Lectures**
    a. Cormen, MIT Video Lectures
    b. Erik Demaine, MIT Video Lectures
    c. Ravindra Babu Ravula, Video Lectures
    d. Abdul Bari, Youtube Channel
    e. Tushar Roy, Youtube Channel

4. **Lecture Notes**
    a. David Babcock, Greg Link (York College of Pennsylvania)

5. **YouTube Links Module wise**

Module :1

a. Amortized Analysis: Aggregate Analysis
https://www.youtube.com/watch?v=Zhi5UUubz8Y&t=142s
b. Amortizeed Analysis: Accounting Method
https://www.youtube.com/watch?v=29869iFHu6A
c. Amortized Analysis: Potential Analysis
https://www.youtube.com/watch?v=fMlmb41qiFU
d. Amortized Analysis: Dynamic Tables
https://www.youtube.com/watch?v=iy-WhIoN6vA
https://www.youtube.com/watch?v=MTl8djZFWE0

Module : 2

a. Probabilistic Analysis : Hiring Problem
https://www.youtube.com/watch?v=BD-NJekPgsY
b. Probabilistic Analysis : Randomized Algorithms
https://www.youtube.com/watch?v=BD-NJekPgsY
c. Probabilistic Analysis : Indicator Random Variable (IRV)
https://www.youtube.com/watch?v=xVQm3eTbmqs
d. Probabilistic Analysis : Analysing Hiring Problem using IRV
https://www.youtube.com/watch?v=yQAw564S-Xg
e. Probabilistic Analysis : Birthday Paradox
https://www.youtube.com/watch?v=1tnas6FQxX8
f. Probabilistic Analysis : Balls and Bins
https://www.youtube.com/watch?v=OOYI7_D2LvU

Module : 3

a. Red Black Trees

i. http://btechsmartclass.com/DS/U5_T4.html
ii. https://www.geeksforgeeks.org/red-black-tree-set-2-insert/
iii.

Module : 4

a. Maximum Flow Problems
   i. Ford-Fulkerson Algorithm for Maximum Flow Problem
   ii. Ford Fulkerson algorithm for Maximum Flow Problem Example
   iii. Ford-Fulkerson Algorithm for Maximum Flow Problem Complexity
   iv. Coursera - Maximum Flow and Min Cut
   v. Flow Network - Audiopedia
   vi. Flow Network - Udacity
   vii. Maximum Flow - HackerEarth
   viii. MAximum Flow - Geeks for Geeks

Module : 5

1. Computational Geometry