Subject :-Analysis of Algorithms(AOA)

Module-1 INTRODUCTION	
INTRODUCTION	https://www.youtube.com/watch?v=0IAPZzGSbME
Asymptotic Notations(Big Oh, Omega, The	https://www.youtube.com/watch?v=A03oI0znAoc
Time Complexity	https://www.youtube.com/watch?v=9TlHvipP5yA
recurrence Relations	https://www.youtube.com/watch?v=4V30R3I1vLI
substitution method recurrence tree method	https://www.youtube.com/watch?v=1K9ebQJosvo
Master method	https://www.youtube.com/watch?v=OynWkEj0S-s
Master method examples	https://www.youtube.com/watch?v=kGcO-nAm9Vc
Module-2 DIVIDE AND CONQUER APPROACH	
DIVIDE AND CONQUER	https://www.youtube.com/watch?v=2Rr2tW9zvRg
Merge sort	https://www.youtube.com/watch?v=mB5HXBb_HY8
Quick sort	https://www.youtube.com/watch?v=-qOVVRIZzao
Finding minimum and maximum algorithm and their analysis	https://www.youtube.com/watch?v=AymrLuG7HH0
Analysis of Binary search	https://www.youtube.com/watch?v=C2apEw9pgtw
Module-3 Greedy Method Approach	
General Method	https://www.youtube.com/watch?v=ARvQcqJ_-NY
Single source shortest path: Dijkstra Algorithm	https://www.youtube.com/watch?v=XB4MIexjvY0
Fractional Knapsack problem,	https://www.youtube.com/watch?v=oTTzNMHM05I
Job sequencing with deadlines,	https://www.youtube.com/watch?v=zPtI8q9gvX8
Minimum cost spanning trees: Kruskal and Prim‟s algorithms	https://www.youtube.com/watch?v=4ZlRH0eK-qQ
Module -4 Dynamic Programming Approach	
General Method,	https://www.youtube.com/watch?v=5dRGRueKU3M
Multistage graphs,	https://www.youtube.com/watch?v=9iE9Mj4m8jk

Single source shortest path: Bellman Ford Algorithm	https://www.youtube.com/watch?v=FtN3BYH2Zes
All pair shortest path: Floyd Warshall Algorithm,	https://www.youtube.com/watch?v=oNI0rf2P9gE
Assembly-line scheduling Problem 0/1 knapsack Problem,	
Travelling Salesperson problem,	https://www.youtube.com/watch?v=XaXsJJh-Q5Y
Longest common subsequence	https://www.youtube.com/watch?v=sSno9rV8Rhg
Module -5 Backtracking and Branch and bound	
Backtracking	https://www.youtube.com/watch?v=DKCbsiDBN6c
Graph Coloring Problem - Backtrackin	https://www.youtube.com/watch?v=052VkKhIaQ4
N Queens Problem using Backtracking	https://www.youtube.com/watch?v=xFv_Hl4B83A
Sum of subsets,	https://www.youtube.com/watch?v=kyLxTdsT8ws
Branch and bound	https://www.youtube.com/watch?v=3RBNPc0_Q6g
Traveling Salesman Problem - Branch and	https://www.youtube.com/watch?v=1FEP_sNb62k
15 Puzzle problem	https://www.youtube.com/watch?v=l6bqjCDK3Kg
Module -6 String Matching Algorithms	
The Naive string-matching algorithm	https://www.youtube.com/watch?v=k7UpWkVvajM
The Rabin Karp algorithm	https://www.youtube.com/watch?v=qQ8vS2btsxI
The Knuth-Morris-Pratt algorithm	https://www.youtube.com/watch?v=V5-7GzOfADQ