

**PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY (DEPARTMENT OF CSE (AIML))**

**Subject Name: - DAA Subject Code:- PC-CS-AIML-303A. 5th Sem**

**LESSON PLAN**

<b>Sr. No.</b>	<b>Lecture No.</b>	<b>Topics To Be Covered</b>	<b>CO Covered</b>	<b>Assignment No</b>	<b>Teaching Methodology</b>
1	L 1	Elementary data structure, Algorithms	CO1	Assignment No 1	White Board
2	L 2	review of asymptotic notation, priority queue, quick sort	CO1	Assignment No 1	White Board
3	L 3	methods for solving recurrence	CO1	Assignment No 1	White Board
4	L4	matrix chain multiplication	CO1	Assignment No 1	White Board
5	L 5	longest common subsequence	CO1	Assignment No 1	White Board
6	L 6	activity selection problem	CO1	Assignment No 1	White Board
7	L 7	huffman code	CO1	Assignment No 1	Smart Board

8	L 8	travelling salesman problem	CO1	Assignment No 1	Smart Board
9	L 9	task scheduling problem	CO1	Assignment No 1	White Board
10	L 10	Bionomial heap	CO1	Assignment No 1	White Board
11	L 11	Fibonacci heap	CO1	Assignment No 1	White Board
12	L 12	splay trees	CO2	Assignment No 2	White Board
13	L 13	red-black tree	CO2	Assignment No 2	White Board
14	L 14	depth first search	CO2	Assignment No 2	White Board
15	L 15	breadth first search	CO2	Assignment No 2	White Board
16	L 16	topological sort	CO2	Assignment No 2	White Board
17	L 17	strongly connected components	CO3	Assignment No 2	White Board
18	L 18	minimum spanning tree	CO3	Assignment No 2	White Board
19	L 19	Single source shortest path	CO3	Assignment No 2	White Board
20	L 20	relaxation	CO4	Assignment No 2	White Board
21	L 21	Dijkstras Algorithm	CO4	Assignment No 2	White Board

22	L 22	Bellman-ford algorithm	CO4	Assignment No 2	White Board
23	L 23	Single source shortest path for directed acyclic graphs	CO4	Assignment No 2	White Board
24	L 24	All pair shortest path	CO5	Assignment No 2	White Board
25	L 25	Floyd-warshall algorithm	CO5	Assignment No 2	White Board
26	L 26	computational complexity	CO5	Assignment No 2	White Board
27	L 27	Np hard and NP complete	CO5	Assignment No 2	White Board
28	L 28	flow network, ford-fulkerson network	CO5	Assignment No 2	White Board
29	L 29	bipartite matching, sorting network, comparison network	CO6	Assignment No 2	Presentation

30	L 30	The zero-one principal, Bitonic sorting network, merging networks	CO6	Assignment No 2	Presentation
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