Lecture Plan : SEM_IV- AOA-CSC402

No.	Portion to be covered	Planned date	Actual date	Content Delivery -Reference /Assessment Method
1	Performance analysis, space, and time complexity Growth of function, Big-Oh, Omega	9-1-23	9-1-23	PPT , Black Board
2	Performance analysis, space, and time complexity Growth of function, Big-Oh, Omega	10-1-23	10-1-23	PPT , Black Board
3	Complexity class: Definition of P, NP, NP-Hard	11-1-23	11-1-23	PPT , Black Board
4	NP-Complete Analysis of selection sort,	16-1-23	16-1-23	PPT , Black Board
5	Analysis of insertion sort	17-1-23	17-1-23	PPT , Black Board
6	Recursion tree method, Master method	18-1-23	18-1-23	PPT , Black Board
7	Recursion tree method, Master method	23-1-23	23-1-23	PPT , Black Board
8	Recursion tree method, Master method	24-1-23	24-1-23	PPT , Black Board
9	General method, Merge sort, Quick sort	25-1-23	25-1-23	PPT , Black Board
10	Finding minimum and maximum algorithms	30-1-23	30-1-23	PPT , Black Board
11	Finding minimum and maximum algorithms and their Analysis	31-1-23	31-1-23	PPT , Black Board
12	Analysis of Binary search.	1-2-23	1-2-23	PPT , Black Board
13	Analysis of Binary search.	6-2-23	6-2-23	PPT , Black Board
14	General Method	7-2-23	7-2-23	PPT , Black Board
15	Single source shortest path: Dijkstra Algorithm	8-2-23	8-2-23	PPT , Black Board
16	Fractional Knapsack problem	13-2-23	13-2-23	PPT , Black Board
17	Job sequencing with deadlines,	14-2-23	14-2-23	PPT , Black Board

18	Minimum cost spanning trees: Kruskal and Prim"s algorithms	15-2-23	15-2-23	PPT , Black Board
19	Minimum cost spanning trees: Kruskal and Prim"s algorithms	20-2-23	20-2-23	PPT , Black Board
20	General Method, Multistage graphs	21-2-23	21-2-23	PPT , Black Board
21	General Method, Multistage graphs	22-2-23	22-2-23	PPT , Black Board
22	General Method, Multistage graphs	27-2-23	27-2-23	PPT , Black Board
23	All pair shortest path: Floyd Warshall Algorithm	6-3-23	6-3-23	PPT , Black Board
24	Assembly-line scheduling Problem0/1 knapsack Problem	8-3-23	8-3-23	PPT , Black Board
25	Assembly-line scheduling Problem0/1 knapsack Problem	13-3-23	13-3-23	PPT , Black Board
26	Travelling Salesperson problem, Longest common subsequence	14-3-23	14-3-23	PPT , Black Board
27	Travelling Salesperson problem, Longest common subsequence	15-3-23	15-3-23	PPT , Black Board
28	Backtracking and Branch and bound General Method	20-3-23	20-3-23	PPT , Black Board
29	Backtracking: N-queen problem,	21-3-23	21-3-23	PPT , Black Board
30	Backtracking: N-queen problem,	22-3-23	22-3-23	PPT , Black Board
31	Sum of subsets,	27-3-23	27-3-23	PPT , Black Board
32	Graph coloring	28-3-23	28-3-23	PPT , Black Board
33	Branch and Bound: Travelling Salesperson Problem	3-4-23	3-4-23	PPT , Black Board
34	15 Puzzle problem	5-4-23	5-4-23	PPT , Black Board
35	String Matching Algorithms	10-4-23	10-4-23	PPT , Black Board
36	String Matching Algorithms	11-4-23	11-4-23	PPT , Black Board
37	The Rabin Karp algorithm	12-4-23	12-4-23	PPT , Black Board

38	The Rabin Karp algorithm	17-4-23	17-4-23	PPT , Black Board
39	The Knuth-Morris-Pratt algorithm	18-4-23	18-4-23	PPT , Black Board
40	The Knuth-Morris-Pratt algorithm	19-4-23	19-4-23	Online class
41	Remedial classes: Revision	20-4-23	20-4-23	Online class in the evening
42	Remedial classes: Revision	21-4-23	21-4-23	Online class in the evening

Total Lectures: 42