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SRM INSTITUTE OF SCIENCE AND TECHNOLOGY RAMAPURAM CAMPUS, CHENNAI-600089 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING LESSON PLAN - LAB

Degree/Branch: B.Tech / CSE

Year/ Sem: II / IV

Sub Code: 18CSC204J Practical Hours : 30

Sub Name: DESIGN AND ANALYSIS OF ALGORITHMS Total Hours : 30

S.No.	Lecturer Topics	No. of Hours	Learning Resource	Reference Page	
1	Simple Algorithm-Insertion sort	2	LR1	65	
2	Bubble Sort	2	LR4	68	
3	Recurrence Type-Merge sort, Linear search	2	LR4	109	
4	Quicksort, Binary search	2	LR4	269,326	
5	Strassen Matrix multiplication	2	LR4	284	
6	Finding Maximum and Minimum in an array, Convex Hull problem	2	LR4	277	
7	Huffman coding, knapsack and using greedy	2	LR4	393	
8	Various tree traversals, Krukshall's MST	2	LR4	401	
9	Longest common subsequence	2	LR4	825	
10	N queen's problem	2	LR4	522	
11	Travelling salesman problem	2	LR4	559	
12	BFS and DFS implementation with array	2	LR1	594,603	
13	Randomized quick sort	2	LR1	179	
14	String matching algorithms	2	LR1	990	
15	Discussion over analyzing a real time problem	2	LR4		
	Total Hours		30		

Approved by

HOD/CSE

Prepared by

M.AZHAGIRI

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY RAMAPURAM CAMPUS, CHENNAI-600089 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING LIST OF EXPERIMENTS

Degree/Branch: B.Tech / CSE

Year/ Sem: II / IV

Sub Code: 18CSC204J Practical Hours : 30

Sub Name: DESIGN AND ANALYSIS OF ALGORITHMS Total Hours : 30

S.No.	Name of the experiment	No. of Hours
	PHASE-I Experiments	
1	Simple Algorithm-Insertion sort	2
2	Bubble Sort	2
3	Recurrence Type-Merge sort, Linear search	2
4	Quicksort, Binary search	2
5	Strassen Matrix multiplication	2
6	Finding Maximum and Minimum in an array, Convex Hull problem	2
7	Huffman coding, knapsack and using greedy	2
8	Various tree traversals, Krukshall's MST	2
	PHASE-II Experiments	
9	Longest common subsequence	2
10	N queen's problem	2
11	Travelling salesman problem	2
12	BFS and DFS implementation with array	2
13	Randomized quick sort	2
14	String matching algorithms	2
15	Discussion over analyzing a real time problem	2

Approved by

HOD/CSE

Prepared by

M AZHAGIRI

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY RAMAPURAM CAMPUS, CHENNAI-600089 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING MARK SPLIT UP

Degree/Branch: B.Tech / CSE

Year/ Sem: II / IV

Sub Code: 18CSC204J

Practical Hours

1 30

Sub Name: DESIGN AND ANALYSIS OF ALGORITHMS

Total Hours

1 30

S.NO	CONTENT	MARKS
1	1.1 Concept explanation-1 Mark 1.2 Algorithm (Logic) - 1 mark 1.3 Presentation-1 Mark	3 Marks
2	2.1 Implementing the Concept-2 Marks 2.2 Code Efficiency-1 Mark	3 Marks
3	3.1 Various Inputs (Generic)-1 Mark 3.2 Output-1 Mark	2 Marks
4	VIVA 4.1 Program Logic-1 Mark 4.2 Answers for related questions-1 Mark	2 Marks
	TOTAL	10 Marks

Approved by

HOD/CSE

M ASSAMIR