

## M.Tech (CS) ALGORITHMS COURSE TENTATIVE SCHEDULE JULY-DEC 2017

DATE	TOPIC	ADDITIONAL
21 JULY	Introduction	
25 JULY	O Notation and Recurrence relations	
28 JULY	Heaps, Appln of Heaps	
1 AUG	Knapsack (KP) Problem - Discussion of Greedy Strategy	
4 AUG	0/1 KP - DP	Assignment -1
8 AUG	0/N KP Problem Coin Changing Problem	
11 AUG	Chained Matrix Multiplication	
15 AUG		HOLIDAY
18 AUG	Discussion on DP	
22 AUG	TSP	Assignment - 2
25 AUG		HOLIDAY
29 AUG	OBST	<b>Minor-1 rescheduled</b>
1 SEPT	Exploring Graphs by BFS: Shortest Paths	
5 SEPT	Shortest Paths :DP	
8 SEPT	MST	
9 SEPT	Exploring Graphs by DFS : Articulation Points;	SPECIAL CLASS
12 SEPT	<b>MINOR - 1</b>	
15 SEPT	Exploring Directed Graphs: Topological Sorting	
19 SEPT	Strongly connected components	Assignment - 3
22 SEPT	Backtracking strategy	
26 SEPT	Branch and Bound : KP revisited	
29 SEPT	TSP : BB	
3 OCT	Summarizing strategies	Group Assignment
6 OCT	Discussion	
10 OCT	Theory of NP-Completeness	Assignment - 4
13 OCT	<b>MINOR-2</b>	
17 OCT – 10 NOV	Theory of NP-Completeness	

### Evaluation :

Minor 3: DA + GA (20 Marks) (Compulsory)

Best of 2 Minors (20 Marks)

Major (60 Marks)