Department of MACS, NITK Surathkal
MCA 801 Computer Algorithms
Programming Assignment-Demonstration schedule

Note:

1. The report should be submitted on or before 09-NOV-2018 by 4:00 PM.
2. Report must include (i)Algorithm and its analysis (ii) Snapshot of output
3. Demonstration schedule will will be as per the following table
4. Programs will be tested for large inputs; input data from file;
5. Use adj list representation for problems on graphs

Marks Distribution	
Mid Sem	25%
Programming Assignment	20%
Quiz	10%
End Sem	45%

Venue: MACS meeting room

1.

Sl.no	**Problem**	**Roll nos**		**Schedule of Demo**
1	Randomized Selection problem	For all		
2	Selection in worst case linear time(by groups of 5)	For all		
3	Fully parenthesize a given chain of Matrices	174CA001	174CA043	10 Nov. 2018, 9:30
4	Longest Common Subsequence problem	174CA004	174CA044	
5	Consider 2 sorted arrays X and Y of size n1 and n2 respectively. Find the median of combined array in O(log n) time.	174CA005	174CA045	
6	Find the i^{th} smallest of combined arrays X and Y of Qn.5 in O(log n) time.	174CA007	174CA049	
7	Rod Cutting Problem (DP)(top down and bottom up)	174CA009	174CA050	10 Nov. 2018, 10:00
8	Obtain an optimal BST for a given keys and corresponding probabilities	174CA010	174CA051	
9	Dynamic programming for integer knapsack problem	174CA011	174CA055	
10	Obtain DFS traversal for a directed graph and list back egdes, cross edges and tree edges	174CA012	174CA057	