

Date	Tentative topics
30-Jul	Intro to Algorithm Analysis and Design
30-Jul	Basic Graph Algorithms - 1: Breadth First Search
2-Aug	Basic Graph Algorithms - 2: Applications of Breadth First Search
6-Aug	Basic Graph Algorithms - 3: DFS and applications
9-Aug	Greedy Algorithms - 1: Shortest paths
13-Aug	Greedy Algorithms - 2: Minimum spanning trees
20-Aug	Greedy Algorithms - 3: Huffman coding
23-Aug	Greedy Algorithms - 4: Interval scheduling
<b>27-Aug</b>	<b>Quiz 1</b>
30-Aug	Divide and Conquer - 1: Karatsuba's integer multiplication
3-Sep	Divide and Conquer - 2: Discrete Fourier Transform
6-Sep	Divide and Conquer - 3: Review of DFT, Polynomial multiplication, counting inversions
10-Sep	Divide and Conquer - 4: Closest pair of points
13-Sep	Divide and Conquer - 5: Closest pair of points (contd.)
<b>17-Sep</b>	<b>Review - 1</b>
	<b>Midsem</b>
27-Sep	Dynamic Programming - 1: Longest increasing subsequence
1-Oct	Dynamic Programming - 2: Interval Scheduling
4-Oct	Dynamic Programming - 3: Subset sum, 0-1 Knapsack, Matrix Chain Multiplication
8-Oct	Dynamic Programming - 4: All pairs shortest paths
11-Oct	Network flows - 1
15-Oct	Network flows - 2
<b>18-Oct</b>	<b>Quiz 2</b>
22-Oct	Network flows - 3
25-Oct	Network flows - 4
5-Nov	Computational Intractability - 1
8-Nov	Computational Intractability - 2
12-Nov	Computational Intractability - 3
<b>15-Nov</b>	<b>Review - 2</b>
<b>19-Nov</b>	<b>Review - 3</b>
~	<b>Endsem</b>