


# Introduction to Algorithms

| Week   | Date         | Day                 | Module                                    |
|--------|--------------|---------------------|---|
| Week 1 | August 31    | Saturday, 10:00 pm  | Graph Representations                     |
|        | September 01 | Sunday, 10:00 pm    | Breadth First Search (BFS)                |
|        | September 02 | Monday, 10:00 pm    | Practice Day                              |
|        | September 03 | Tuesday, 10:00 pm   | Depth First Search (DFS) and 2D Grid      |
|        | September 04 | Wednesday, 10:00 pm | Practice Day                              |
|        | September 05 | Thursday, 10:00 pm  | Assignment 01                             |
|        | September 06 | Friday, 10:00 pm    | No module day                             |
| Week 2 | September 07 | Saturday, 10:00 pm  | Cycle Detection                           |
|        | September 08 | Sunday, 10:00 pm    | Dijkstra Algorithm                        |
|        | September 09 | Monday, 10:00 pm    | Practice Day                              |
|        | September 10 | Tuesday, 10:00 pm   | Bellman Ford and Floyd Warshall Algorithm |
|        | September 11 | Wednesday, 10:00 pm | Practice Day                              |
|        | September 12 | Thursday, 10:00 pm  | Mid Term Exam                             |
|        | September 13 | Friday, 10:00 pm    | No module day                             |
| Week 3 | September 14 | Saturday, 10:00 pm  | Problem Solving using BFS and DFS         |
|        | September 15 | Sunday, 10:00 pm    | Disjoint Set Union                        |
|        | September 16 | Monday, 10:00 pm    | Off day                                   |
|        | September 17 | Tuesday, 10:00 pm   | Practice Day                              |
|        | September 18 | Wednesday, 10:00 pm | DSU and Cycle Detections                  |
|        | September 19 | Thursday, 10:00 pm  | Practice Day                              |
|        | September 20 | Friday, 10:00 pm    | No module day                             |

| Week   | Date         | Day                 | Module                                |
|--------|--------------|---------------------|---------------------------------------|
| Week 4 | September 21 | Saturday, 10:00 pm  | Graph basic and Representations recap |
|        | September 22 | Sunday, 10:00 pm    | Problem solving with graph - 1        |
|        | September 23 | Monday, 10:00 pm    | Practice Day 01                       |
|        | September 24 | Tuesday, 10:00 pm   | Problem solving with graph - 2        |
|        | September 25 | Wednesday, 10:00 pm | Practice Day 02                       |
|        | September 26 | Thursday, 10:00 pm  | Assignment 02                         |
|        | September 27 | Friday, 10:00 pm    | No module day                         |
| Week 5 | September 28 | Saturday, 10:00 pm  | Basic of DP                           |
|        | September 29 | Sunday, 10:00 pm    | 0-1 Knapsack                          |
|        | September 30 | Monday, 10:00 pm    | Practice Day 01                       |
|        | October 01   | Tuesday, 10:00 pm   | Knapsack Variations.                  |
|        | October 02   | Wednesday, 10:00 pm | Practice Day 02                       |
|        | October 03   | Thursday, 10:00 pm  | Final Exam                            |
|        | October 04   | Friday, 10:00 pm    | No Module Day                         |



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