11/28/23, 4:18 AM Course Outline - Phitron

## **Basic Data Structures**

| Week   | Date        | Day                | Module                              |
|--------|-------------|--------------------|-------------------------------------|
| Week 1 | November 26 | Sunday, 9:00 am    | Off day                             |
|        | November 27 | Monday, 9:00 am    | Off day                             |
|        | November 28 | Tuesday, 9:00 am   | Time & Space Complexity             |
|        | November 29 | Wednesday, 9:00 am | STL Vector                          |
|        | November 30 | Thursday, 9:00 am  | Practice Day 01                     |
|        | December 01 | Friday, 9:00 am    | Prefix Sum & Binary Search          |
|        | December 02 | Saturday, 9:00 am  | Practice Day 02                     |
|        | December 03 | Sunday, 9:00 am    | Singly Linked List                  |
| Week 2 | December 04 | Monday, 9:00 am    | Operations on Singly Linked List    |
|        | December 05 | Tuesday, 9:00 am   | Practice Day 01                     |
|        | December 06 | Wednesday, 9:00 am | Double Linked List & Operations     |
|        | December 07 | Thursday, 9:00 am  | Practice Day 02                     |
|        | December 08 | Friday, 9:00 am    | Assignment 01                       |
|        | December 09 | Saturday, 9:00 am  | No Module day                       |
|        | December 10 | Sunday, 9:00 am    | STL List and Cycle Detection        |
| Week 3 | December 11 | Monday, 9:00 am    | Linked List related problem solving |
|        | December 12 | Tuesday, 9:00 am   | Practice Day 01                     |
|        | December 13 | Wednesday, 9:00 am | Stack Implementation                |
|        | December 14 | Thursday, 9:00 am  | Practice Day 02                     |
|        | December 15 | Friday, 9:00 am    | Mid Term Exam                       |
|        | December 16 | Saturday, 9:00 am  | No module day                       |

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| Week   | Date        | Day                | Module                                  |
|--------|-------------|--------------------|---|
| Week 4 | December 17 | Sunday, 9:00 am    | Queue Implementation                    |
|        | December 18 | Monday, 9:00 am    | STL Stack and Queue                     |
|        | December 19 | Tuesday, 9:00 am   | Practice Day 01                         |
|        | December 20 | Wednesday, 9:00 am | Stack and Queue related problem solving |
|        | December 21 | Thursday, 9:00 am  | Practice Day 02                         |
|        | December 22 | Friday, 9:00 am    | Assignment 02                           |
|        | December 23 | Saturday, 9:00 am  | No Module day                           |
|        | December 24 | Sunday, 9:00 am    | Binary Tree Implementation              |
|        | December 25 | Monday, 9:00 am    | Binary Tree Operations                  |
|        | December 26 | Tuesday, 9:00 am   | Practice Day 01                         |
| Week 5 | December 27 | Wednesday, 9:00 am | Binary Tree related problem solving     |
|        | December 28 | Thursday, 9:00 am  | Practice Day 02                         |
|        | December 29 | Friday, 9:00 am    | Assignment 03                           |
|        | December 30 | Saturday, 9:00 am  | No module day                           |
|        | December 31 | Sunday, 9:00 am    | BST Implementation                      |
|        | January 01  | Monday, 9:00 am    | BST Implementation                      |
|        | January 02  | Tuesday, 9:00 am   | Practice Day 01                         |
| Week 6 | January 03  | Wednesday, 9:00 am | STL Priority Queue and Map              |
|        | January 04  | Thursday, 9:00 am  | Practice Day 02                         |
|        | January 05  | Friday, 9:00 am    | Final Exam                              |
|        | January 06  | Saturday, 9:00 am  | No module day                           |

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