**DATA STRUCTURES AND ALGORITHMS LAB 15B11CI578**

**ODD 2022**

**Lab Coordinator: Dr. Manju, Dr Raju Pal**

**Important Instructions:**

1. All students are required to **attend at least 80% labs.**

2. Lab assignment is classified as Practice, Evaluation, Lab test, Project.

3. The total weightage of day to day work is 60 Marks. Evaluations will be done using Evaluation/Viva/Quiz.

4. There will be 2 Lab Tests: **Test 1 [20 M]** & **Test 2 [20 M]**.

5. The evaluative lab assignments will be evaluated as per the given deadline.

**Lab Plan**

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| **Week** | **Date** | **Topic** | **Task** |
| Week 1 | 03 Aug- 06 Aug | Number System, Manipulation of Strings | Practice Lab |
| Week 2 | 08 Aug - 13 Aug | Arrays | Practice Lab |
| Week 3 | 15 Aug - 20 Aug | Linked List: Single, Circular, Doubly Linked List | Practice Lab+ **Project Synopsis Submission (5 M)** |
| Week 4 | 22 Aug - 27 Aug | Stack, Queue | Practice Lab |
| Week 5 | 29 Aug – 03 Sep | Sorting, Searching | Practice Lab+ **Evaluation 1 (15 M)** |
| Week 6 | 05 Sep – 10 Sep | Sorting, Searching | Practice Lab |
| Week 7 | 12 Sep – 17 Sep |  | T1 Examination |
| Week 8 | 19 Sep – 24 Sep | Binary Search Tree | Practice Lab |
| Week 9 | 26 Sep – 01 Oct | AVL tree | Practice Lab |
| Week 10 | 03 Oct – 08 Oct |  | **Lab Test 1 (20 M)** |
| Week 11 | 10 Oct – 15 Oct | Priority Queue, Heaps | Practice Lab |
| Week 12 | 17 Oct – 21 Oct | Graph, Hashing | Practice Lab |
| Week 13 | 22 Oct – 26 Oct  27 Oct -29 Oct | Graph, Hashing | **Diwali Break**  Practice Lab |
| Week 14 | 31 Oct- 05 Nov |  | T2 Examination |
| Week 15 | 07 Nov-12 Nov | Algorithms | Practice Lab+  **Evaluation 2 (15 M)** |
| Week 16 | 14 Nov-19 Nov | Algorithms | Practice Lab |
| Week 17 | 21 Nov-26 Nov |  | **Lab-Test 2 (20 M)** |
| Week 18 | 28 Nov-03 Dec | Lab File Submission | **Project Evaluation** **(15M)** |