DATA STRUCTURES & ANALYSIS OF ALGORITHMS LAB ASSIGNMENTS

2021-22

KIET Group Of Institutions

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***Experiment Experiment Name Date***

***No.***

**Experiment 1: WAP to implement the addition April-22**

**And Multiplication of two 2D**

**arrays.**

**Experiment 2: WAP to transpose a 2D array. April-22**

**Experiment 3: WAP to implement singly linked**

**list. April-22**

**Experiment 4: WAP to implement doubly linked**

**list. April-22**

**Experiment 5: WAP to implement polynomial**

**addition and Multiplication. April-22**

**Experiment 6: WAP to implement stack using**

**array. May-22**

**Experiment 7: WAP to implement queue using**

**array. May-22**

**Experiment 8: WAP to implement circular queue**

**using Array. May-22**

**Experiment 9: WAP to implement stack using**

**linked list. May-22**

**Experiment 10: WAP to implement queue using**

**Linked List. May-22**

**Experiment 11: WAP to implement linear search**

**and Binary search. May-22**

**Experiment 12: WAP to implement the following sorting**

**Algorithms**

1. **Bubble sort**
2. **Selection sort**
3. **Insertion sort May-22**

**Experiment 13: WAP to implement the following sorting**

**Algorithm**

1. **Merge sort**
2. **Heap sort**
3. **Quick sort May-22**

**Experiment 14: WAP to implement the following**

**Using Linked List. June-22**

**Experiment 15: WAP to implement Matrix**

**Multiplication by Strassen’s**

**algorithm. June-22**