

Vellore – 632014, Tamil Nadu, India SCHOOL OF COMPUTER SCIENCE AND ENGINEERING FALL SEMESTER 2022-2023

LAB ASSESSMENT -II

SLOT: B2/TB2

Course Code : BCSE202P

Course Name : DATA STRUCTURES AND ALGORITHMS LAB

- 1. Illustrate Queue operation and circular queue operation. The assessment should include the following things .
 - a. Algorithm
 - b. Source Code
 - c. Input and Output
- 2. Illustrate the following Operations on Linked List, The assessment should include the following things
 - a. Algorithm
 - b. Source Code
 - c. Input and Output

a. Single Linked List

- i. Create
- ii. Insertion at beginning
- iii. Insertion after position
- iv. Delete- 3 Cases (Beginning, End, after Position)
- v. Display
- vi. Count
- vii. Search
- viii. Reverse

b. Double Linked List

- i. Create
- ii. Insertion at beginning
- iii. Insertion after position

- iv. Delete- 3 Cases (Beginning, End, after Position)
- v. Display
- vi. Count
- vii. Search
- viii. Reverse

c. Circular Linked List

- i. Create
- ii. Insertion at beginning
- iii. Insertion after position
- iv. Delete- 3 Cases (Beginning, End, after Position)
- v. Display

d. Linked List Application

- i. Polynomial Addition
- ii. Polynomial Subtraction
- iii. Polynomial Multiplication
