



## F. Course Content

### LIST OF EXPERIMENTS:

#### CYCLE I

S. No	Experiment name
1	Implementation of Queue using Array
2	Implementation of singly linked list
3	Infix to postfix conversion
4	Implementation of Binary Search Tree

#### CYCLE II

5	Implementation of Breadth First Search
6	Implementation of Depth First Search
7	Insertion sort and Bubble sort
8	Heap sort
9	Quick sort
10	Linear search and Binary search

### LIST OF EQUIPMENT FOR A BATCH OF 30 STUDENTS:

Stand alone desktops with C/C++ compiler 30 Nos.

(or)

Server with C/C++ compiler supporting 30 terminals or more.

## G. Learning Resources

### i. Text Book

- M. A. Weiss, "Data Structures and Algorithm Analysis in C", Second Edition, Pearson Education, 2007.

### ii. Reference Books

- V. Aho, J. E. Hopcroft, and J. D. Ullman, "Data Structures and Algorithms", Pearson Education, First Edition Reprint 2003.
- R. F. Gilberg, B. A. Forouzan, "Data Structures", Second Edition, Thomson India Edition, 2005.
- Ellis Horowitz, Sartaj Sahni, Dinesh Mehta, "Fundamentals of Data Structure", Computer Science Press, 1995.

### iii. Online Resources

- <http://www.academictutorials.com/data-structure/>
- <http://www.c4learn.com/data-structure/introduction-to-linked-list-c-programming/>
- <http://randu.org/tutorials/c/ads.php>
- [https://faculty.washington.edu/jstraub/dsa/Master\\_2\\_7a.pdf](https://faculty.washington.edu/jstraub/dsa/Master_2_7a.pdf)
- <http://www.zentut.com/c-tutorial/>
- <http://www.studytonight.com/data-structures/introduction-to-data-structures>