

AIM:

To implement different data structures and their algorithms for storing, accessing and manipulating data using an object oriented programming language.

OBJECTIVES:

- To implement the concepts of object oriented programming.
- To implement different data structures using object oriented programming language.
- To use standard template library in the implementation of standard data structures.

Experiments in the following:

1. Implementation of any one of the following List, Stack, Queue ADTs, binary search Trees. Implement data abstraction by separate compilation of implementation (.h & .cpp) and application (main.cpp).
2. Use of standard Template Library: Strings, containers.
3. Use of STL: Iterators.
4. Operator Overloading.
5. Templates.
- 6 Exception handling, Class Hierarchies.
7. AVL Tree.
8. Splay Tree.
9. B Tree.
10. Graph algorithms.

TOTAL: 45 PERIODS