



## **Government Girls' Polytechnic, Bilaspur**

Name of the Lab: **Programming Lab**

Practical: **Data Structure Lab**

Class: **4<sup>th</sup> Semester (Computer Science & Engineering)**

Teachers Assessment: 30 End Semester Examination:70

### **List of Experiments**

1. Program to search an element of array using linear search.
2. Program to reverse the elements of an array.
3. Insertion and deletion on array at specified position.
4. Program based on structure union.
5. Program to implement PUSH and POP operation on stack.
6. Program based on - In fix to post fix or infix to prefix using stack  
Concept - Recursion using stack.
7. Program based on queue & their operations for an application.
8. Program for implementation of circular queue.
9. Program based on list operations and its application.
10. Program based on pointers in C.
11. Implementation of tree using linked list.
12. Implementation of different types of sorting techniques.
13. Implementation of Binary search Algorithm using Binary tree.
14. Assignment based on graph theory.