

## **Name of the laboratory: C++ Programming Lab**

The Purpose of C++ programming lab is to provide a general understanding of oop concepts and students will be able to develop applications for a range of problems using object-oriented programming techniques

### **List of the equipment:**

- 1.36 number of Zenith Pentium PC Dual Core CPU E5300 @ 2.70 GHz
2. 2 GB RAM
3. 500 GB
- 4 .SATA Hard Disk @ 7200 RPM
- 5 .18.5" LCD Monitor
- 6 .Microsoft Windows 7 Academic Get Genuine Legalization License
7. Turbo C++

### **List of experiments:**

1. Write a C++ Program to display Names, Roll No., and grades of 3 students who have appeared in the examination. Declare the class of name, Roll No. and grade. Create an array of class objects. Read and display the contents of the array.
2. Write a C++ program to declare Struct. Initialize and display contents of member variables.
3. Write a C++ program to declare a class. Declare pointer to class. Initialize and display the contents of the class member.
4. Given that an EMPLOYEE class contains following members: data members: Employee number, Employee name, Basic, DA, IT, Net Salary and print data members.
5. Write a C++ program to read the data of N employee and compute Net salary of each employee (DA=52% of Basic and Income Tax (IT) =30% of the gross salary).
6. Write a C++ to illustrate the concepts of console I/O operations.
7. Write a C++ program to use scope resolution operator. Display the various values of the same variables declared at different scope levels.
8. Write a C++ program to allocate memory using new operator.
9. Write a C++ program to create multilevel inheritance. (Hint: Classes A1, A2, A3)
10. Write a C++ program to create an array of pointers. Invoke functions using array objects.
11. Write a C++ program to use pointer for both base and derived classes and call the member function. Use Virtual keyword.