Even Semester Lesson Plan

**BCA – 242**

**Advanced PROGRAMMING USING C++**

Teacher name: Neelam

April 2021

|  |
| --- |
| Dynamic Polymorphism: Function Overriding, Virtual Function and itsNeed, Pure Virtual Function, Abstract Class, Virtual Derivation, VirtualDestructor. Type Conversion: Basic Type Conversion, Conversion between objects and basic types, Conversion between objects of different classes  |

May 2021

|  |
| --- |
| Inheritance: Rules ofDerivations – Private, Protected and Public Derivations.Different Forms of Inheritance – Single, Multiple, Multilevel, Hierarchicaland Multipath InheritanceRoles of Constructors and Destructors inInheritance |

June 2021

|  |
| --- |
| Genericity in C++: Templates in C++, Function templates, Class templates in C++, Exception Handling in C++: try, throw andcatch, Files I/O in C++: Class Hierarchy for Files I/O,  |

July 2021

|  |
| --- |
| Text versus Binary Files,Opening and Closing Files, File Pointers, Operation on files. |