Even Semester Lesson Plan

**BCA – 242**

**Advanced PROGRAMMING USING C++**

Teacher name: Neelam

April 2021

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

May 2021

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| Inheritance: Rules of  Derivations – Private, Protected and Public Derivations.  Different Forms of Inheritance – Single, Multiple, Multilevel, Hierarchical  and Multipath Inheritance  Roles of Constructors and Destructors in  Inheritance |

June 2021

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

July 2021

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