Lesson Plan

B.Sc Computer Science Semester IV

PAPER I: C++

Teacher name: Surjeet Singh

April 2021

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| Object oriented Programming: Object-Oriented programming features and benefits. Object-Oriented features of C++, Class and Objects, Data Hiding & Encapsulation, Structures, Data members and Member functions, Scope resolution operator and its significance |

May 2021

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| Static Data Members, Static member functions, Nested and Local Class, Accessing Members of Class and Structure. Constructor, Initialization using constructor, types of constructor– Default, Parameterized & Copy Constructors Constructor overloading, Default Values to Parameters, Destructors, Console I/O: Hierarchy of Console Stream Classes, Unformatted and Formatted I/O Operations. |

June 2021

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| Manipulators, Friend Function, Friend Class, Arrays, Array of Objects, Passing and Returning Objects to Functions, String Handling in C++, Dynamic Memory Management: Pointers, new and delete Operator, Array of Pointers to Objects, this Pointer, Passing Parameters to Functions by Reference & pointers. Static Polymorphism: Operators in C++, Precedence and Associativity Rules |

July 2021

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| Operator Overloading, Unary & Binary Operators Overloading, Function Overloading, Inline Functions, Merits/Demerits of Static Polymorphism |