**LESSON-PLAN (Session 2021-22) Even Semester**

**Name of Professor**: Dr. Naveeta Adlakha

**Subject: Object oriented Progrmming with C++**

**Class: B.Sc. II**

**Subject/Paper: Paper I**

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| **Sr. No.** | **Days**  | **Topics to be covered** | **Remarks if any** |
|  | **01-04-2022to 15-04-2022** | **UNIT I :** Object oriented Programming: Object-Oriented programming features and benefits. Object-Oriented features of C++, Class and Objects |  |
|  | **16-04-2022-30-04-2022** | Data Hiding & Encapsulation, Structures, Data members and Member functions, Scope resolution operator and its significance, Static Data Members, Static member functions, Nested and Local Class, Accessing Members of Class and Structure**Assignment I** |  |
|  | **01-05-2022to 15-05-2022** | **UNIT II:** Constructor, Initialization using constructor, types of constructor– Default, Parameterized & Copy Constructors, Constructor overloading, Default Values to Parameters, Destructors |  |
|  | **16-05-2022-31-05-2022** | Console I/O: Hierarchy of Console Stream Classes, Unformatted and Formatted I/O Operations.**Class Test I** |  |
|  | **01-06-2022to 15-06-2022** | **UNIT – III** Manipulators, Friend Function, Friend Class, Arrays, Array of Objects, Passing and Returning Objects to Functions, String Handling in C++, Dynamic Memory Management**Assignment II** |  |
|  | **16-06-2022-30-06-2022** | Pointers, new and delete Operator, Array of Pointers to Objects, this Pointer, Passing Parameters to Functions by Reference & pointersn **UNIT – IV:** Static Polymorphism: Operators in C++, Precedence and Associativity Rules |  |
|  | **01-07-2022to 16-07-2022** | Operator Overloading, Unary & Binary Operators Overloading, Function Overloading, Inline Functions, Merits/Demerits of Static Polymorphism. **Class Test II** |  |

\*Vacation as per university calendar

\*Assignments and unit test will be taken as per schedule