**Name of the Teacher: Poonam Rani**  **Class: B.Voc (Software Development) Sem-III**

**Paper: BVSD-34 Nomenclature: Object Oriented Programming with C++**

**Lesson Plan**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | **Comparing C with C++, Introduction to Programming C++: Object-oriented Features of C++, Class and Objects, Data Hiding & Encapsulation, Structures, Data Members and Member Functions,** | **Topic Disscussion** **Topic Review from students****Doubt Session** |
|  | **01-31 Aug 2017** | **Inline Functions, Static Data Members and Member Functions, Friend Functions, Constructors & Destructors: Roles and Types of Constructors, Roles of Destructors,**  | **Group Discussion** **Oral test****Oral Presentations****Doubt Session** |
|  | **01-30 Sept 2017** | **Dynamic Memory Allocation: Pointers and their Manipulation, new and delete Operators ‘this’ Pointer.Compile-Time Polymorphism: Unary and Binary Operators Overloading Through Member Functions and Friend Functions, Function Overloading.**  | **Black board presentation****Oral Presentation****Power point presentation by student****Doubt Session** |
|  | **01-31 Oct 2017** | **Inheritance: Types of Derivations, Forms of Inheritance, Roles of Constructors and Destructors in Inheritance. . Exception Handling: try, throw and catch constructs, rethrowing an Exception, catch all Handlers. Genericity in C++: Template Function, Template Class, Inheritance and Templates.** | **Oral Presentation****Quiz****Oral test****Doubt Session** |
|  | **01-13 Nov 2017** | **Preprocessor Directives, Namespace, Console I/O: Formatted and Unformatted I/O, Manipulators.** | **Topic discussion****Doubt Session****Revison of topics**  |

**Topics of Assignments/ Class Tests to be given to the Students:**

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| **Assignment 1** | **Q1. What do you mean by Object Oriented programming Language? Explain concept of OOPS.****Q2. What is the diff between traditional and object oriented programming?** |
| **Assignment 2** | **Q1. What do you mean by Friend Function ? Explain with the help of example****Q2. What do you mean by Inheritance? Explain types of inheritance.** |
| **Class Test** | **Q 1. What do you mean by inheritance? Explain Types of inheritance. Give an example of multiple inheritances.****Q2. Explain advantages and disadvantages of inheritance.****Q3. Discuss Role of constructor and destructor in inheritance.** |